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PERSONAL.

Mr. George V. Lorings has been appointed City Engineer of Decatur, Ill., to succeed Mr. Dickerson, resigned.

Capt. Walter Leslie Fisk, M. Am. Soc. C. E., Corps of Engineers, U. S. Army, stationed at Portland, Ore., has been promoted to be Major.

Mr. Edward M. Bigelow, M. Am. Soc. C. E., Director of the Department of Public Works, Pittsburg, Pa., expects to sail for Europe Aug. 13.

Prof. Aaron N. Skinner has been appointed Professor of Mathematics at the Naval Observatory, Annapolis, Md., with relative rank of Lieutenant.

Mr. W. M. Deutsch, recently Manager of the New York Filter Mfg. Co., New York, has been appointed General Manager of the Continental Filter Co., 44 Wall St., New York.

Mr. M. J. McGinty, Secretary of the Ferguson Contracting Co., railway contractors, 69 Wall St., New York city, was recently married to Miss Margaret Effinger Dean, at Harrisonburg, Va.

Mr. F. T. Chambers, Civil Engineer, United States Navy, has been detached from the New York Navy Yard and ordered to duty in connection with the coaling station at Pago Pago, Samoan Islands.

Mr. James W. G. Walker, Civil Engineer, United States Navy, whose appointment was noted in our last issue, has been ordered to duty in connection with the Nicaraguan Canal Commission.

Mr. Wm. Kent, M. Am. Soc. M. E., and one of the Associate Editors of this journal, has been appointed a member of a commission to consider the pollution of the rivers and streams of the State of New Jersey.

Mr. Creighton H. Hollingsworth, Jun. Am. Soc. C. E., of Waltham, Mass., has been appointed Assistant Engineer of the American Lake Superior Power Co. on the construction of its plant at Sault Ste. Marie, Mich.

Capt. Geo. A. Zinn, Corps of Engineers, United States Army, has been relieved from duty at Milwaukee, Wis., and ordered to Louisville, Ky., to relieve Capt. Jas. G. Warren, Corps of Engineers, who will in turn relieve him at Milwaukee.

Mr. J. W. Beardsley, civil engineer, with the Sanitary District of Chicago, has resigned his position in order to accept that of Assistant Engineer under the Board of Engineers on the Deep Waterways Commission, with headquarters at Ogdensburg, N. Y.

Major Louis Duncan, First Regiment of United States Volunteer Engineers, recently encamped at Peekskill, N. Y., has resigned. Dr. Duncan's appointment was noted in our issue of June 2. He is a Past President of the American Institute of Electrical Engineers, and is Professor of Electrical Engineering in Johns Hopkins University, Baltimore, Md.

Lieut. Francis R. Shunk, Corps of Engineers, United States Army, has been relieved from temporary duty at San Francisco, Cal., under Col. Chas. K. Suter, M. Am. Soc. C. E., Corps of Engineers, and has been ordered to duty at the United States Military Academy, West Point, N. Y. Lieut. Chester Harding, Corps of Engineers, has been relieved from duty at Newport, R. I., under Major Danl. W. Lockwood, Corps of Engineers, and has also been ordered to duty at the U. S. Military Academy.

Mr. Robert Campbell Gemmell, M. Am. Soc. C. E., civil and mining engineer, of Salt Lake City, Utah, has been appointed State Engineer by Governor Wells. He is a graduate of the University of Michigan, Ann Arbor, and has been largely engaged in railway and water supply work in the West. He is engineer of the De Lamar Mines, Mercur, Utah, and is a member of the State Board of Health. He succeeds Col. Willard Young, of the Second Regiment of United States Volunteer Engineers.

Mr. George W. Dickie, Manager of the Union Iron Works, San Francisco, Cal., and builder of the U. S. battleship "Oregon," was born at Ardroth, Scotland, about 60 years ago. He was trained in his father's shipyard; served for a time on the North British Ry., and then commenced the construction of textile machinery and hydraulic apparatus. He came to San Francisco some years ago and was Chief Constructing Engineer for the Risdon Iron Works. About 1884 he became connected with the Union Iron Works as Chief Engineer in charge of ship-building. The Superintending Engineer of the Union Iron Works is Mr. Robert Forsyth.

OBITUARY.

Mr. William Warner, architect, of Elk River, Minn., died July 26, aged 64.

Prof. William Shubert, civil engineer, of Allentown, Pa., died recently, aged 83.

Mr. John O. Deeds, mechanical engineer, of Pittsburg, Pa., died July 31, aged 34.

Mr. Daniel Boehmer, contractor, of Manitowoc, Wis., died July 29, aged 71, as the result of a fall from a building during a storm, July 19.

Mr. Andrew Nicol, for many years Superintendent of the mines of the Delaware & Hudson Canal Co., of Green Ridge, Pa., died Aug. 6, aged 81.

Mr. Arthur Hunter, Chief Engineer of the Allegheny City Light Co., Allegheny, Pa., died Aug. 4, aged 42. He was a mechanical and civil engineer.

Mr. C. W. Canfield, civil engineer, for some years past Paymaster of the Union Bridge Co., Athens, Pa., died there July 30. He had been in the employ of this company and of Kellogg & Maurice for 25 years.

Mr. H. T. Knight, for 14 years Superintendent of the Natoma Water & Mining Co., and for the past six years Chief Engineer of the Sacramento Electric, Gas & Railway Co., of Sacramento, Cal., died July 24, at Harbin Springs, Cal.

Mr. John J. Schoenleber, electrical engineer, President of the Northwestern Engineering Co., St. Paul, Minn., died Aug. 5, aged 32. He was a graduate of the Iowa State College, Ames, Ia., and of Purdue University, Lafayette, Ind.

Mr. Ichabod Jean, contractor and builder, of Baltimore, Md., died Aug. 4, aged 83. Among some of the buildings in that city which were erected by him are the City Hall and the Academy of Music. He was for a time Inspector of Buildings of Baltimore.

Mrs. Harriet S. Totten, widow of Col. George Muirson Totten, the famous civil engineer who built the Panama R. R., died Aug. 3, aged 89. Mrs. Totten assisted her husband, who died in 1884, in his engineering labors, and accompanied him on all his trips to Panama, extending over a period of 25 years. She was a frequent writer on Central American topics.

Dr. George C. Hubbard, head of the Health Department of the Borough of Richmond, New York city, died at his home in Tottenville, Aug. 3. He was appointed Assistant Sanitary Superintendent of the Health Board, Jan. 1, 1898, upon the consolidation of the cities. He was a veteran of the Civil War, in which he served in the Union Army as an Assistant Surgeon.

Mr. Adolph Heinrich Joseph Sutro, Mining Engineer, builder of the Sutro Tunnel, and late Mayor of San Francisco, Cal., died in the latter city Aug. 8. He was born about 1830, and was educated as a mining engineer and mineralogist. He went to California in 1850, and engaged in mining. In 1860 he planned the great four-mile tunnel for draining the Comstock Mines, which, after hard work in securing capital, was commenced in 1869 and finished in 1871. He made a fortune out of the tax of $2 a ton on all ore extracted, and he devoted a part of his income to collecting a library and to building the great public resort near the Cliff House on the ocean front of San Francisco. In his battle with the Southern Pacific Ry. Co. for a five-cent fare to the latter place he developed those anti-monopoly fighting qualities that made him so popular with the people of San Francisco, and which finally led to his being made Mayor. He leaves an estate that is nominally worth $10,000,000; but is heavily mortgaged.

Mr. Jean Louis Charles Garnier, architect, of Paris, France, died last week. He was born in Paris, Nov. 6, 1825, and in 1842 entered the L'Ecole des Beaux-Arts, where he spent six years, winning the Grand Prix in architecture on finishing his course. He then visited Greece and made a study of the Temple of Jupiter in the Island of Egina, from which he prepared a polychromatic design for its restoration that attracted much attention at the Salon des Beaux-Arts, in 1853, and at the Exposition Universalle, in 1855. In 1861 he won the open competition of plans for the Grand Opera House to be built in Paris and was also entrusted with the execution of the work. The building was completed in 1875 and at that time had cost nearly 50,000,000 francs. Among other notable works of M. Garnier's were the Casino at Monte Carlo, the Observatory at Nice, and the various constructions designed to illustrate "The History of Human Habitation," exhibited at the Paris Exposition of 1889. He received the cross of the Legion of Honor in 1864, later becoming an officer and commander. In 1867 he became a Corresponding Member of the Institute of British Architects, and was presented with its gold medal in 1886. He was elected a member of the Academie des Beaux-Arts in 1874.

Dr. James Hall, who has been State Geologist of New York since 1837, died at Echo Hill, Bethlehem, N. H., this week. He was born in Hingham, Mass., Sept. 12, 1811 and graudated from the Rensselaer Polytechnic Institute, Troy, N. Y., in 1832. He was Assistant Professor of Chemistry at that institution for four years and in 1836 was made Professor of Geology. In that year the Geological Survey of New York was organized and he was appointed Assistant Geologist, the following year being appointed State Geologist. In 1855 he declined to accept the position of Chief of the Department of Paleontology of the geological survey of Canada, which was offered him. He was one of the founders of the American Association of Geologists and Naturalists in 1840, which later grew into the American Association for the Advancement of Science, of which he was at one time President. He was also a founder of the National Academy of Science and the International Congress of Geologists, of which latter society he was a Vice-President when it met in Paris in 1878, in Boulogne in 1881 and in Berlin in 1885. In 1848 he was elected a Foreign Member of the Geological Society of London, receiving one of its medals in 1853. In 1884 he was elected Correspondent of the Paris Academy of Science and in 1895 he was elected a member of the Russian Academy of Sciences. He was also a member of many other scientific societies and was a frequent contributor to scientific, especially geological and paleontological literature. He was appointed State Geologist of Iowa in 1855 and of Wisconsin in 1857.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

AMERICAN MATHEMATICAL SOCIETY.
Aug. 19-20. Annual meeting, Boston, Mass. Secy., F. N. Cole, Columbus University, New York city.

AMERICAN CHEMICAL SOCIETY.
Aug. 22-23. Annual meeting, Boston, Mass. Secy., Albert C. Hale, 551 Putnam Ave., Brooklyn, N. Y.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 22-27. Annual meeting, Boston, Mass. Secy., F. W. Putnam, Salem, Mass.

GEOLOGICAL SOCIETY OF AMERICA.
Aug. 23. Annual meeting Boston, Mass. Secy., H. L. Fairchilds, Rochester, N. Y.

AMERICAN FORESTRY ASSOCIATION.
Aug. 23-24. Annual meeting, Boston, Mass. Pres., Francis H. Appleton, 101 Tremont St., Boston, Mass.

NATIONAL IRRIGATION CONGRESS.
Sept. 1-3. Annual convention, Cheyenne, Wyo. Secy., J. C. Harpham.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Sept. 2. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

GERMAN-AMERICAN TECHNICAL SOCIETY.
Sept. 3-7. Annual meeting Philadelphia Section, Reading, Pa. Secy., A. Schumann, 532 North 4th St., Philadelphia, Pa.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Sept. 5. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

AMERICAN STREET RAILWAY ASSOCIATION.
Sept. 6-9. Annual convention, Boston, Mass. Secy., T. C. Pennington, 2020 State St., Chicago, Ill.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Sept. 7. Secy., C. W. Hunt, 220 W. 57th St., New York city.

CENTRAL RAILWAY CLUB.
Sept. 9. Secy., H. D. Vought, 114 5th Ave., New York city.

MONTANA SOCIETY OF ENGINEERS.
Sept. 10. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

THE LOUISIANA ENGINEERING SOCIETY.
Sept. 12. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 12-13. Annual meeting, Sault Ste. Marie, Mich. Secy., Wilson S. Howell, Newark, N. J.

NORTHWEST RAILWAY CLUB.
Sept. 13. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Sept. 13. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

ROADMASTERS' ASSOCIATION OF AMERICA.
Sept. 13. Annual meeting, Denver, Colo. Secy., J. B. Dickson, Sterling, Ill.

NEW YORK STATE STREET RAILWAY ASSOCIATION.
Sept. 13-14. Annual meeting, Brooklyn, N.Y. Secy., H. A. Robinson, New York city.

BROOKLYN ENGINEERS' CLUB.
Sept. 15. Secy., A. J. Prevost, Jr., 191 Montague St., Brooklyn, N. Y.

NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Sept. 16. Secy., D. W. Meeker, St. Paul, Minn.

ENGINEERS' CLUB OF MINNEAPOLIS.
Sept. 19. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
burg, Pa.
Sept. 20. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Sept. 21. Secy., S. E. Tinkham, City Hall, Boston, Mass.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Sept. 21. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 27-29. Annual meeting, Springfield, O. Secy., John Fisher, 11 Riley St., Hamilton, O.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Oct. 18. Annual meeting Buffalo, N. Y. Secy., R. W. Raymond, P. O. Box 223, New York city.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.—The eighth annual convention of this Association will be held at Murphy's Hotel, Richmond, Va., from Oct. 18 to 20. The program is as follows: Oct. 18.—Morning—Convention called to order and the transaction of usual routine business. Afternoon—Committee reports and discussion of reports presented at the last convention. Oct. 19.—Morning—Discussion of reports of committees on investigation. Afternoon—Further discussion and answering questions propounded by members. Oct. 20.—Morning—Miscellaneous business and election of officers. Afternoon—Excursions to points of interest.

The excursion list includes visits to Newport News, Old Point Comfort, the Newport News Navy Yard, Washington, D. C., and the many points of interest in and about Richmond.

GERMAN-AMERICAN TECHNICAL SOCIETY.—The annual meeting of the Philadelphia section of this Society will be held at Reading, Pa., Sept. 4-7. The convention will begin with an informal reception by the Philadelphia Society at 532 North 4th St., Philadelphia, Pa., on the evening of Sept. 3. On Sept. 4 there will be an excursion to Reading, where the day will be spent in sight-seeing and excursions.

Monday, Sept. 5, there will be a meeting of delegates, followed by trips to Mt. Penn, Carsonia Park and Woodvale. The evening will be given up to a banquet.

Tuesday, Sept. 6, "General Engineering Day," will be given up to visiting industrial establishments. Those proposed at present are: Carpenter Steel Works, Reading Hardware Works, Repair Shops of R. R. Co., and Reading-Scott Works. During the afternoon excursions will be made to points of interest.

Wednesday, Sept. 7.—The party will take a trolley trip to Highland House. During the business session on Sept. 6, which will consist of reading of reports of delegates and minutes of meetings, Mr. Otto C. Reyman, Pittsburg, Pa., will read a paper on "Acetylene."

NATIONAL IRRIGATION CONGRESS.—The seventh annual meeting of this organization will be held at Cheyenne, Wyo., on Sept. 1 to 3. The Executive Committee states that the Congress is composed of the following: Five delegates from each state and territory, to be appointed by the Governors thereof; one delegate from each city in the United States having a population of less than 25,000, and two delegates from each city having a population of over 25,000; one delegate each from any regularly organized irrigation, agricultural and horticultural society, society of engineers, irrigation companies, agricultural colleges and commercial bodies, and duly accredited representatives of any foreign nation or colony; and members of the United States Senate and House of Representatives, and Governor of a state or territory; any member of a state or territorial irrigation commission; the chairman of each section and the permanent officers of the Congress.

NEW YORK STATE STREET RAILWAY ASSOCIATION.—It is announced that the sixteenth annual convention of this Association will be held at the Hotel St. George, Brooklyn, N. Y., on Sept. 13 and 14. It is expected that papers will be presented on the following topics:

"Points on the Care of Dynamos;" "The Use and Abuse of Transfers;" "How Can We Increase Our Receipts?" "Low Joints; How to Prevent Them;" "The Power Station from an Economic Standpoint;" "The Office; Suggestions for Record, Reports, Etc.;" "Track Bonding; How Can We Obtain the Best Results?" "Street Railroad versus the State; the Relation to Each System for Single Track Roads;" "General Track Construction; the Most Approved Method of Freight and Express Service on Suburban and Interurban Lines;" "Are Air and Power Brakes on Electric Cars Practicable?" "The Most Approved Plan of Long-Distance Power Transmission;" "The Best Method of Preventing Accidents;" "Pleasure Resorts as a Means of Stimulating Travel; Are they Profitable?" "The Effect upon Street Railroads of the Application of Electricity to Steam; Possibilities and Advantages from an Up-to-Date Street Car Service and Why the Rate of Fare Should Not be Reduced;" "Daily Inspection of Car Equipment and How Can We Accomplish the Best Results?" "Receipts from Other Sources;" "How to Obtain Best Results from Sale of Advertising Privileges, Power, Etc."

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Aug. 11.	Light station, Orient Point, N. Y.		Aug. 4
	Advertised, Engineering News, Aug. 4.		
Aug. 11.	Iron or stone bridge, Elizabeth, N. J.		Aug. 4
Aug. 11.	Heating apparatus, Knoxville, Tenn.		Aug. 4
Aug. 11.	Brick paving, curb, etc., Alexandria, Va.		July 28
	Advertised, Eng. News, July 28 and Aug. 4.		
Aug. 11.	School building, Springfield, Mass.		July 28
Aug. 11.	Grading, Reading, Pa.		Aug. 11
Aug. 11.	Bridge, Nutley, N. J.		Aug. 11
Aug. 11.	Pipe sewers, Pittston, Pa.		Aug. 11
Aug. 11.	Grading, etc., Alexandria, Va.		Aug. 11
Aug. 12.	Pike road (36 miles), Vernon, Ind.		Aug. 11
Aug. 12.	Retaining wall, Troy, N. Y.		Aug. 11
Aug. 12.	Iron superstructure, Mount Vernon, O.		Aug. 11
Aug. 12.	Steel water tank, Bridgeton, N. J.		Aug. 11
Aug. 12.	Bridge masonry, Butler, Pa.		July 28
Aug. 12.	Brick paving, Olean, N. Y.		July 28
	Advertised, Engineering News, July 28.		
Aug. 12.	Steam pump, Salem, N. J.		July 28
	Advertised, Eng. News, July 28 and Aug. 4.		
Aug. 12.	Water filter plant, Salem, N. J.		July 28
	Advertised, Eng. News, July 28 and Aug. 4.		
Aug. 12.	Art building addition, Des Moines, Ia.		July 21
Aug. 12.	Electrical conductors, New York, N. Y.		Aug. 4
Aug. 12.	Garbage disposal plant, Milwaukee, Wis.		Aug. 4
Aug. 12.	Bank building, Passaic, N. J.		Aug. 4
Aug. 13.	Bridge, Marion, O.		Aug. 4
Aug. 13.	Pipe sewers, Kenton, O.		Aug. 4
Aug. 13.	Bridges (2), Colfax, Wash.		Aug. 4
Aug. 13.	Grading, Zanesville, O.		Aug. 4
Aug. 13.	Pipe sewer, Ashtabula, O.		July 28
	Advertised, Engineering News, July 28.		
Aug. 13.	Brick paving, Chillicothe, O.		July 28
	Advertised, Engineering News, July 28.		
Aug. 13.	Brick paving, Lancaster, O.		July 28
Aug. 13.	Heating, etc., Syracuse, N. Y.		Aug. 11
Aug. 13.	Street bonds, Chillicothe, O.		Aug. 11
Aug. 13.	Grading, fill, etc., Deadwood, S. Dak.		Aug. 11
Aug. 15.	Pipe sewer, Concord, N. C.		Aug. 11
Aug. 15.	Grading, Chicago, Ill.		Aug. 11
Aug. 15.	Grading, gravelling, etc., Wauwatosa, Wis.		Aug. 11
Aug. 15.	Asphalt paving, Kansas City, Mo.		Aug. 11
Aug. 15.	Pipe sewers, Owensboro, Ky.		Aug. 11
Aug. 15.	Paving, curbing, etc., Portland, Me.		Aug. 11
Aug. 15.	Addition to school building, Boston, Mass.		Aug. 11
Aug. 15.	Park bonds, Newark, N. J.		Aug. 11
Aug. 15.	Levee work, Tallulah, La.		Aug. 11
Aug. 15.	Pipe sewer, Des Moines, Ia.		Aug. 11
Aug. 15.	Water pipe, wells, etc., McKeesport, Pa.		Aug. 11
Aug. 15.	Water machinery, Chicago Junction, O.		Aug. 11
Aug. 15.	Water-works, Ashburnham, Ont.		Aug. 11
Aug. 15.	Paving, etc., Albany, N. Y.		Aug. 11
Aug. 15.	Factory buildings, etc., Ottumwa, Ia.		Aug. 11
Aug. 15.	Road machine, Helena, Mont.		Aug. 11
Aug. 15.	Bonds, Poplarville, Miss.		July 28
Aug. 15.	Drainage ditch, Ottawa, Ill.		July 28
Aug. 15.	Paving bonds, Oberlin, O.		July 28
Aug. 15.	Water bonds, Barnesboro, Pa.		July 28
Aug. 15.	Paving, etc., Fremont, O.		July 21
Aug. 15.	Grading, Omaha, Neb.		July 21
Aug. 15.	Exhibition bldg. plans, Glasgow, Scotland.		June 2
Aug. 15.	Water pipe, pumping statn, etc.,	Laporte, Ind.	Aug. 4
Aug. 15.	Engine house, etc.,	Evansville, Ind.	Aug. 4
Aug. 15.	Water-works,	Augusta, Wis.	Aug. 4
Aug. 15.	Water tower and tank,	San Jose, Cal.	Aug. 4
Aug. 15.	Drainage,	Cissna Park, Ill.	Aug. 4
Aug. 15.	Gas lamps,	Duluth, Minn.	Aug. 4
Aug. 15.	Coal house,	Springfield, O.	Aug. 4
Aug. 15.	Heating apparatus,	Petersburg, Va.	Aug. 4
Aug. 15.	Church building,	Petrolea, Ont.	Aug. 4
Aug. 15.	Asphalt paving,	Buffalo, N. Y.	Aug. 4
Aug. 15.	Grading and draining,	Toledo, O.	Aug. 4
Aug. 15.	Macadamizing,	Oakland, Cal.	Aug. 4
Aug. 15.	Macadamizing, etc.,	Fremont, O.	Aug. 4
	Advertised, Engineering News, Aug. 4.		
Aug. 16.	Gas lamps, etc.,	Superior, Wis.	Aug. 4
Aug. 16.	Bonds,	Salt Lake City, Utah.	Aug. 4
Aug. 16.	Steel bridge,	Oshkosh, Wis.	Aug. 4
	Advertised, Engineering News, Aug. 4.		
Aug. 16.	Electric light bonds,	Springville, N. Y.	Aug. 4
Aug. 16.	Street bonds,	Mount Vernon, N. Y.	Aug. 4
Aug. 16.	Brick paving, Coldwater,	Mich.	Aug. 4
	Advertised, Engineering News, Aug. 4.		
Aug. 16.	Electric light apparatus,	Danville, Ill.	Aug. 4
Aug. 16.	Asphalt paving,	New York, N. Y.	Aug. 4
Aug. 16.	Electric lighting,	Superior, Wis.	Aug. 4
Aug. 16.	Electric light plant,	Minster, O.	July 21
Aug. 16.	Pipe sewer,	Oberlin, O.	July 28
Aug. 16.	Pipe sewer,	Dunkirk, N. Y.	Aug. 11
Aug. 16.	Grading,	St. Joseph, Mo.	Aug. 11
Aug. 16.	Pipe sewers,	Mendota, Ill.	Aug. 11
Aug. 16.	Cylinder plates,	Plum Beach L'thouse, R.I.	Aug. 11
Aug. 16.	Water pipe,	Billerica, Mass.	Aug. 11
Aug. 16.	Paving and sewers,	Camden, N. J.	Aug. 11
Aug. 16.	Paving, etc.,	Pittsburg, Pa.	Aug. 11
Aug. 16.	Church building,	Waseca, Minn.	Aug. 11
Aug. 16.	Macadamizing,	Cromwell, Conn.	Aug. 11
Aug. 16.	Brick paving,	Waterbury, Conn.	Aug. 11
Aug. 16.	Macadam roads,	Rockville, Md.	Aug. 11
Aug. 16.	Brick paving,	Oberlin, O.	Aug. 11
Aug. 16.	Brick paving,	Dallas, Tex.	Aug. 11
Aug. 16.	Paving,	Denver, Colo.	Aug. 11
Aug. 17.	School building,	Chicopee, Mass.	Aug. 11
Aug. 17.	Sewers,	Chicago, Ill.	Aug. 11
Aug. 17.	Masonry, etc.,	Cleveland, O.	Aug. 11
Aug. 17.	Gas lighting, etc.,	Covington, Ky.	Aug. 11
Aug. 17.	Brick paving, curbing, etc.,	Urbana, Ill.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 17.	Electric light plant,	Thorold, Ont.	Aug. 11
Aug. 17.	Electric lighting,	Covington, Ky.	Aug. 11
Aug. 17.	Bridge,	New Brunswick, N. J.	Aug. 11
Aug. 17.	Water-works,	Paw Paw, Mich.	Aug. 11
Aug. 17.	Graveling,	New Brunswick, N. J.	Aug. 11
Aug. 17.	Bridge substructure,	New Haven, Conn.	Aug. 4
	Advertised, Engineering News, Aug. 4.		
Aug. 17.	Sidewalks,	St. Bernard, O.	July 28
Aug. 17.	Bridge substructures (2),	Cleveland, O.	July 21
Aug. 18.	Water supply,	Jersey City, N. J.	July 14
Aug. 18.	Army supplies,	Memphis, Tenn.	July 28
	Advertised, Eng. News, July 28 to Aug. 11.		
Aug. 18.	Grading, etc.,	Defiance, O.	July 28
Aug. 18.	Water-works,	Rome, N. Y.	Aug. 4
Aug. 18.	Highway,	Truro, Mass.	Aug. 11
Aug. 18.	Broken stone, etc.,	New York.	Aug. 11
Aug. 18.	Paving,	Buffalo, N. Y.	Aug. 11
Aug. 19.	Pipe sewers,	Pontiac, Mich.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 19.	Boilers (2),	National Home, Wis.	Aug. 11
Aug. 19.	Steel bridge,	Delaware, O.	Aug. 11
Aug. 19.	Gate house,	New Bedford, Mass.	Aug. 11
Aug. 19.	Levee work,	Dayton, O.	Aug. 11
Aug. 19.	Bridge bonds,	Jersey City, N. J.	Aug. 11
Aug. 19.	Grading, etc.,	Guilford, Conn.	Aug. 11
Aug. 19.	Cement, warks, etc.,	Rochester, N. Y.	Aug. 11
Aug. 19.	Paving, etc.,	Troy, N. Y.	Aug. 11
Aug. 19.	Paving sidewalks,	Dayton, O.	Aug. 11
Aug. 19.	Viaduct substructure,	Cleveland, O.	July 28
Aug. 19.	Asphalt paving,	Cleveland, O.	July 28
Aug. 20.	Bridge,	Cincinnati, O.	July 28
Aug. 20.	Dredging,	Montgomery, Ala.	July 28
	Advertised, Eng. News, July 28 to Aug. 11.		
Aug. 20.	Paving bonds,	Mansfield, O.	July 28
Aug. 20.	Electric lighting,	Whitesboro, N. Y.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 20.	Street bonds,	Malta, O.	July 21
Aug. 20.	Pumping engines,	Lancaster, O.	Aug. 4
Aug. 20.	High school building,	Sharonville, O.	Aug. 4
Aug. 20.	Road bonds,	Houston, Tex.	Aug. 4
Aug. 20.	Macadam paving,	Suffield, Conn.	Aug. 11
Aug. 20.	Dam, abutments, etc.,	Brantford, Ont.	Aug. 11
Aug. 20.	Bonds,	Tiffin, O.	Aug. 11
Aug. 20.	Bridge,	Brantford, Ont.	Aug. 11
Aug. 20.	Iron bridge,	Cocalico, Pa.	Aug. 11
Aug. 20.	Power pump,	Chambersburg, Pa.	Aug. 11
	Advertised, Eng. News, Aug. 11 and 18.		
Aug. 20.	Curbing, gutter, etc.,	Piqua, O.	Aug. 11
Aug. 20.	Concrete walks,	Toledo, O.	Aug. 11
Aug. 21.	Church building,	Winnebago City, Minn.	Aug. 11
Aug. 22.	Masonic building,	Wichita, Kan.	Aug. 11
Aug. 22.	Bridge,	La Moure, N. Dak.	Aug. 11
Aug. 22.	Sewerage system,	Santa Ana, Cal.	Aug. 11
Aug. 22.	Addition to engine house,	Washington.	Aug. 11
Aug. 22.	Heating, etc.,	Paterson, N. J.	Aug. 11
Aug. 22.	Wells,	Washington, D. C.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 22.	Street cleaning,	Oakland, Cal.	Aug. 11
Aug. 22.	Paving, etc.,	South Bend, Ind.	Aug. 11
Aug. 22.	Brick paving, etc.,	Fremont, Neb.	Aug. 11
Aug. 22.	Heating and ventilation,	Paterson, N. J.	Aug. 4
	Advertised, Eng. News, Aug. 4 and 11.		
Aug. 22.	Bridge (400 ft.),	Hamilton, O.	Aug. 4
Aug. 22.	High school building,	Columbus, O.	Aug. 4
Aug. 22.	Court house,	Charleston, Ill.	Aug. 4
Aug. 22.	School buildings,	Ione, Cal.	Aug. 4
Aug. 22.	Electric light plant,	Mineral Point, O.	July 28
	Advertised, Eng. News, July 28 to Aug. 11.		
Aug. 22.	Steel substructure,	Lebanon, O.	July 28
Aug. 22.	Water-works,	Mineral Point, O.	July 28
	Advertised, Eng. News, July 28 to Aug. 11.		
Aug. 23.	School building,	Columbus, O.	July 28
Aug. 23.	Water pipe,	Coolgardie, West Australia.	June 2
Aug. 23.	Electric light plant,	Bunker Hill, Ill.	Aug. 4
Aug. 23.	Collegiate building,	Iowa City, Ia.	Aug. 11
Aug. 23.	Steel projectiles,	Washington, D. C.	Aug. 11
Aug. 23.	Wharf,	Fort Morgan, Ala.	Aug. 11
Aug. 23.	Naval supplies,	Philadelphia, Pa.	Aug. 11
Aug. 23.	School building,	Roanoke, Va.	Aug. 11
Aug. 23.	Water-works,	Greenville, Cal.	Aug. 11
Aug. 23.	Macadam road,	Naugatuck, Conn.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 24.	Water-works improvements,	Elyria, O.	Aug. 4
Aug. 24.	Sidewalks,	Cambridge City, Ind.	Aug. 4
Aug. 24.	Hire dredging plant,	Mobile, Ala.	July 28
	Advertised, Eng. News, July 28 to Aug. 18.		
Aug. 25.	Lighthouse,	Baltimore, Md.	July 28
	Advertised, Engineering News, July 28.		
Aug. 25.	Bonds ($80,000),	Healdsburg, Cal.	Aug. 4
Aug. 25.	School building,	Waldo, O.	Aug. 4
Aug. 25.	School building,	Passaic, N. J.	Aug. 11
Aug. 25.	Filling sewage beds,	Plainfield, N. J.	Aug. 11
Aug. 25.	Bridge work,	London, O.	Aug. 11
Aug. 25.	Sewers,	Cleveland, O.	Aug. 11
Aug. 25.	Electric light plant,	McArthur, O.	Aug. 11
Aug. 25.	Sewer,	New Hampton, Ia.	Aug. 11
Aug. 26.	Barracks,	National Soldiers' Home, Va.	Aug. 11
Aug. 26.	Water-works,	Healdsburg, Cal.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 26.	Water and light bonds,	Healdsburg, Cal.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 26.	Electric light plant, etc.,	Healdsburg, Cal.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Aug. 26.	Pump engines (2),	Minneapolis, Minn.	July 21
	Advertised, Eng. News, July 21 to Aug. 11.		
Aug. 27.	Water pipe,	Lakewood, O.	Aug. 4
Aug. 27.	Road work,	Pittsburg, Pa.	Aug. 11
Aug. 29.	Brick paving,	Malta, O.	Aug. 11
Aug. 29.	Brick paving,	Canton, O.	Aug. 4
Aug. 29.	Paving, etc.,	Toledo, O.	Aug. 4
Aug. 29.	Pumping eng. (3,000,000 galls.),	Marietta, O.	July 21
Aug. 30.	Plans for electric traveling crane,	Chicago.	July 21
Aug. 30.	Grading, etc., for water-wks.	Cincinnati, O.	Aug. 4
Aug. 30.	Dams, etc., Mississippi River,	Ill.	Aug. 4
	Advertised, Eng. News, Aug. 4 to 25.		
Aug. 30.	Gravel roads,	Indianapolis, Ind.	Aug. 4
Aug. 30.	Gas mains, etc.,	San Jose, Cal.	Aug. 11
Aug. 30.	Pipe sewers,	Peru, Ind.	Aug. 11
Aug. 30.	School building,	Delphos, O.	Aug. 11
Aug. 30.	Street bonds,	Orrville, O.	Aug. 11
Aug. 31.	Hospital,	Fort Slocum, N. Y.	Aug. 11
Aug. 31.	Coal handling plant,	New London, Conn.	Aug. 11
Aug. 31.	Chapel building,	Lebanon, Pa.	Aug. 11
Aug. 31.	Dredging,	Bridgeport, Conn.	Aug. 4
	Advertised, Eng. News, Aug. 4 to 25.		
Aug. 31.	Custom house,	Guayquil, Ecuador.	Apr. 21
Sept. 1.	Drainage system,	Savannah, Ga.	June 30
	Advertised, Eng. News, June 23 to Aug. 25.		
Sept. 1.	Electric light plant,	Cullman, Ala.	July 21
Sept. 1.	Water-works,	Norwood, N. Y.	July 21
Sept. 1.	Bridges,	Johnsonburg, Pa.	Aug. 4
	Advertised, Eng. News, Aug. 4 and 11.		
Sept. 1.	Water-works,	Mobile, Ala.	Aug. 4
	Advertised, Eng. News, Aug. 4 to 25.		
Sept. 1.	Electric lighting,	Paris, Tex.	Aug. 11
	Advertised, Eng. News, Aug. 11 to 25.		
Sept. 1.	Dam, power house, etc.,	Jackson, Mich.	Aug. 11
	Advertised, Engineering News, Aug. 11.		
Sept. 3.	Sewage pumping plant,	No. Somerville, Mass.	Aug. 11
	Advertised, Eng. News, Aug. 11 and 18.		
Sept. 3.	Smokeless powder,	Washington, D. C.	Aug. 11
Sept. 3.	Sewage pumping station,	Boston, Mass.	July 7
	Advertised, Eng. News, July 7 and 14.		
Sept. 5.	Dredging,	Waukegan, Ill.	Aug. 4
	Advertised, Eng. News, Aug. 4 and 11.		
Sept. 5.	Bridge,	Dillon, Mont.	Aug. 4
Sept. 5.	Steel hull tugboat,	Seattle, Wash.	Aug. 4
Sept. 5.	Construction materials,	Ft. Delaware, Del.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 6.	Pumping station, etc.,	Winnipeg, Man.	Aug. 11
	Advertised, Eng. News, Aug. 11 to 25.		
Sept. 6.	Wells,	Winnipeg, Man.	Aug. 11
	Advertised, Eng. News, Aug. 11 to 25.		
Sept. 7.	Bridge,	Oroville, Cal.	Aug. 4
Sept. 8.	Bridge,	Roseburg, Ore.	Aug. 4
Sept 8.	Dykes, Hudson River,	N. Y.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 9.	Rubber suctions,	Charleston, S. C.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 12.	Water and sewer bonds,	Mobile, Ala.	Aug. 11
Sept. 12.	Grading, paving, etc.,	Toledo, O.	Aug. 11
Sept. 13.	Capitol building,	Helena, Mont.	July 28
Sept. 15.	Enlarging court house,	Lisbon, N. Dak.	July 28
Sept. 15.	Fire alarm system,	Mobile, Ala.	Aug. 11
	Advertised, Eng. News, Aug. 11 to Sept. 1.		
Sept. 19.	Hospital plans,	San Francisco, Cal.	Aug. 4
Oct. 1.	Monitors (4),	Washington, D. C.	July 7
Oct. 1.	School building (equipment),	St. Thomas, Ont.	July 7
Oct. 5.	Bridge superstructure,	Chicago, Ill.	Aug. 11
Oct. 24.	Markets, etc.,	Belem, Brazil.	Apr. 28
Oct. 30.	School building,	Chehalis, Wash.	June 16
Dec. 31.	Plans for station, etc.,	Stockholm, Sweden.	June 23
No date.	Electric lighting,	Berkeley, Cal.	Aug. 11
"	City hall,	Freeport, Ill.	Aug. 11

RAILWAYS.

ALABAMA.—Reports state that Burton & Brown are building a narrow gage railway from their mills at Minnooka, on the Louisville & Nashville, to their timbered lands five miles south of Calla, Ala. This line will be two or three miles long. County Surveyor A. P. R. Dahl will survey the route.

ALABAMA & FLORIDA.—R. M. Quigley & Co., St. Louis, Mo., have been awarded the contract for clearing, grading and track-laying on this new road, from Georgiana to River Falls, Ala., a distance of about 30 miles. M. H. Smith, Pres. Louisville & Nashville R. R. Co., Louisville, Ky., is said to be interested in the new line.

ATCHISON, TOPEKA & SANTA FE.—Press reports state that the block system on this line is being rapidly extended and that by the end of another year the Chicago and Eastern divisions will be equipped. It is expected to commence work soon on the installation of the block system, from Ottawa to Purcell, Kan.

ATLANTA, KNOXVILLE & NORTHERN.—This company is making extensive improvements on its line. Every trestle on the road is being filled. The work has been in progress but a short time, and to complete it will require about two years' time, as there are many trestles on the road, and the improvement is one which cannot be rushed.

ATLANTIC COAST LINE.—It is officially announced that, commencing Aug. 1, the Atlantic Coast Line R. R. Co. of South Carolina will become the legal successor by consolidation of the following five railway companies: the Wilmington, Columbia & Augusta, the North Eastern of South Carolina, the Cheraw & Darlington, the Manchester & Augusta, the Florence of South Carolina. The principal office of the company will be at Charleston, S. C. Pres., C. S. Gadsden, Charleston, S. C.; Gen. Mgr., J. R. Kenly, Wilmington, N. C.——Reports state that the Manchester & Augusta branch will be extended about 25 miles, contracts for the construction of the same to be awarded in about one month.

BURLINGAME & NORTHWESTERN.—This company was incorporated in Kansas July 29, with a capital stock of $340,000, to operate the old Manhattan, Alma & Burlingame Ry., between Alma and Burlingame, Ark., 47 miles. The directors are: E. B. Purcell, of Manhattan; Howell Jones, of Topeka, Kan.; Adiel Sherwood, of St. Louis, Mo.; W. S. McClintock, of Topeka. Adiel Sherwood recently purchased the line at receiver's sale.

CLEARFIELD SOUTHERN.—G. H. Gearhart, Clearfield, Pa., informs us that all the surveys have been made and the capital secured for the construction of this proposed railway, from Belsena Mills to Clearfield Bridge, a station on the Beech Creek R. R. Pres., A. W. Lee, Clearfield; Ch. Engr., Samuel Bruger, Unionville, Pa.

CLEVELAND & NEW CASTLE.—D. D. Streeter & Co., of Chicago, have been awarded the contract for constructing the portion of this new line between Akron and Niles, O.; and Ryan & McDonald, of New York, have the contract for that portion between Niles and New Castle, Pa. Sub-contracts are being let. Pres., J. H. McVey; Ch. Engr., J. H. Pirkey, both of Youngstown, O.

COLUMBIA & WESTERN.—Press reports state that the Canadian Pacific Ry. Co. assumed charge of the Columbia & Western Ry., the narrow-gage line between Trail and Rossland, B. C., on July 22, and is now operating it. The road is being largely relocated, and the contract for rebuilding it and widening the gage has been let to Winters, Parsons & Boomer, of Butte, Mont., who have begun grading. They expect to complete the work in three months; estimated total cost, $120,000. It is expected that the smelter will be in blast by August 1. Laborers are in great demand. E. P. Gutelius, Gen. Mgr.

DELAWARE.—Strong & Totten, 32 Liberty St., New York, have the contract for the construction of this proposed steam railway, from Delhi to Andes and Bovina Center, Delaware County, N. Y., on the New York, Ontario & Western Ry., 15 miles. Pres., Henry Davie; Ch. Engr., Thomas Murray, both of Delhi, N. Y.

FORT WAYNE, DELPHI & PEORIA.—John Vanatta, Pres., Brookston, Ind., informs us that the surveys have been completed, the profiles made and the capital stock secured for this proposed line between Brookston and Peoria, Ill., via Fowler, Ind.; Milfold and Buckley, Ill., 175 miles. This new line will be a branch of the Chicago, Indianapolis & Louisville Ry. Ferd. Hall, Ch. Engr., Chicago, Ill.

ILLINOIS CENTRAL.—Press reports state that Pres. Stuyvesant Fish, of the Illinois Central, and other western capitalists, made application in Alabama, Aug. 9, for a charter for a railway from West Point, Miss., in a northerly direction into Alabama, terminating for the present in the coal fields of the Mississippi Valley Coal Co. This line will be operated in connection with the Illinois Central, and the first 60 miles of the road are expected to be completed by Jan. 14, 1899.

KENTUCKY.—Judge B. F. Day, of Mount Sterling, Ky., has recently closed a sale of 6,000 acres of timber land on Beaver Creek, Menefee county, to John B. Fassett, Tunkhannock, Pa.; John T. Phillips, Dallas, Pa.; and John T. Halleck, Wilkes Barre, Pa. It is reported that a railway will be built across the property at once to Rothmell or to Yale.

LOUISVILLE, HENDERSON & ST. LOUIS.—It is reported that this company contemplates the extension of its road from West Point, its present terminus, to Louisville. The line now has an entrance into Louisville over the tracks of the Illinois Central R. R. The right of way has already been secured, and about two-thirds of the distance has been graded. R. N. Hudson, Ch. Engr., Cloverport Ky.

NEW ORLEANS & WESTERN & PORT CHALMETTE TERMINAL.—C. B. Van Nostrand, Pres., 36 Wall St., New York, is said to have finally arranged with Contractor Stewart, of New Orleans, La., for the improvement work to be made at the new terminal in New Orleans.

OHIO RIVER & CHARLESTON.—Reports state that this line will be extended from Gaffney, the present terminus, to Spartanburg, S. C. A. N. Molesworth, Ch. Engr. and Supt., Johnson City, Tenn.

OREGON RAILROAD & NAVIGATION.—This company has let the contract for improving eight miles of its track in Oregon to Hale & Smith; to cost about $175,000.

RICHMOND, PETERSBURG & CAROLINA.—The W. P. Chapman Co., general contractor of this railway, Petersburg, Va., writes us that, contrary to current reports, the directors of this railway company have not voted to terminate the contract with the W. P. Chapman Co., nor has such cancellation been considered. The W. P. Chapman Co. holds its contract from the Colonial Construction Co., which is the financial end of the railway company.

ST. LOUIS, IRON MOUNTAIN & SOUTHERN.—Reports state that this company is extending its yard facilities at St. Louis, Mo., to quite an extent. The block system is in use at St. Louis, and for some distance down the main line; similar extensions are proposed at Memphis, Tenn., and the introduction of the block system will follow such extensions. This matter, like the new depot, however, may be held up until the litigation of the city against the company is over.

TENNESSEE CENTRAL.—It is announced that the necessary funds have been secured for the completion of this road from Monterey to Knoxville, Tenn., a distance of about 100 miles. About fifteen miles of grading and all the track laying remain to be done. The work is to be finished in 90 days, and then through connections from Nashville to Harriman, on a direct line will be established over the Nashville, Chattanooga & St. Louis Ry. to Lebanon, thence over Crawford's road to Monterey, and from Monterey to Harriman over the Tennessee Central. This arrangement will only be temporary, as the Tennessee Central will build its own lines from Harriman through to Nashville as soon as practicable. Then the road from Nashville to Clarkesville will also be constructed. The work is to be finished within two years. Pres., Jere Baxter, Nashville, Tenn.

SAN FRANCISCO & SAN JOAQUIN VALLEY.—Two contracts for grading the Point Richmond extension of this railway are said to have been let to Woods Bros. and Cy. Moring, of Stockton, Cal. They will grade the roadbed across Robert's Island, from the San Joaquin River to Whisky Slough, a little over four miles of heavy grade work across reclaimed land, which is below highwater mark on the river, but is filled in. W. B. Storey, Jr., Ch. Engr., San Francisco, Cal.

SUGAR CREEK.—J. W. Davis, Pres., Coffman, W. Va., informs us that this company is getting the right of way for its projected railway as quickly as it can. The route is from McDonald to Raleigh Court House, W. Va., along Sugar Creek, to a coal region, a distance of 18 miles. The company desires to lease these coal lands on a royalty. J. M. Clarke, Ch. Engr., Kanawha Falls, W. Va.

TITUSVILLE, CAMBRIDGE & LAKE ERIE.—Wheeler & Co., Bowling Green Bldg., New York, have been awarded the contract for the construction of a 30-mile section of this railway. F. P. Brown, Gen. Supt., Titusville, Pa.

WASHINGTON & CHESAPEAKE BEACH.—The construction of this line is being rapidly pushed. The road is already in operation from Deanwood, D. C., to Marlboro, a distance of twelve miles. It is the intention to run both steam and electric trains over the line, connecting for the present with the Alexandria branch of the Baltimore & Ohio R. R., at Deanwood, thence to Hyattsville, Md., reaching Washington over the Baltimore & Ohio tracks to the station at C St. and New Jersey Ave.

WISCONSIN.—Negotiations are said to be in progress between the Wisconsin & Michigan, the Ann Arbor, the Dunbar & Wausaukee and the Holmes & Sons' railway companies, the last two exclusive logging roads, whereby the three are to have terminals at Menominee, Wis. If the deal is made the Wisconsin & Michigan will remove its eight miles of rails between Peshtigo and the harbor to a new line to be built from Bagley Junction to Menominee, a like distance. The Dunbar & Wausaukee will build from Wausaukee to a connection with the Wisconsin & Michigan at Bagley Junction, a distance of fourteen miles, and the Holmes & Sons' road will build from its present eastern terminus at Muskauna Creek to a connection with the Wisconsin & Michigan, at Kerry Gow, a distance of six miles. This new railway scheme will carry with it the erection at Menominee of a large union station, and also the construction of a new car barge slip for the Wisconsin & Michigan. The latter road is now being extended to Quinnesec and the Menominee iron range.

STREET AND ELECTRIC RAILWAYS.

MALDEN, MASS.—The aldermen of this town have granted permission to the Boston Elevated R. R. to extend its tracks on Broadway and Eastern Ave., Maplewood.

HARTFORD, CONN.—Frank Caum, Supt. Hartford St. Ry. Co., informs us that a brick and iron addition to the power station, 40 × 75 ft., is now being built and is expected to be in use by October 1. A 30 × 52 × 48-in. crosscompound engine, with a 850-K-W. General Electric generator and a Worthington independent condenser will be installed. There are no novel features except the all-concrete foundations of the building, built by the Hartford Paving & Construction Co., in which 1,200,000 lbs. of concrete were used. The iron work in the building is by the Berlin Iron Bridge Co., of East Berlin, Conn. E. S. Goodrich, Pres. Hartford St. Ry. Co.; N. McD. Crawford, Gen. Mgr., Hartford.

SUFFIELD, CONN.—The charter of the Suffield & East Granby St. Ry. Co. was sold on Aug. 1 to George W. Dunham, of Flemington, N. J., who is said to hold a controlling interest in the Springfield & Southwestern St. R. R. Co. It is now thought that the proposed electric railway for this town will now be built, as the suit pending between the two companies will probably be withdrawn.

BROOKLYN, N. Y.—A certificate of merger has been filed by the Nassau Electric Ry. Co. of Brooklyn, with the Secretary of New York State, merging these companies: Kings County Electric Ry. Co., Coney Island Ry. Co. and the Union Ry. Co. of Brooklyn.

FULTON, N. Y.—O. C. Breed, Engr., Fulton, has prepared plans for repaving the curves and turnout for the Fulton & Oswego Falls St. Ry. Co., the changes made being suitable for the use of electric motive power. The present line is operated by horses.

LAURENS, N. Y.—Reports from Oneonta, N. Y., state that Owen Phillips has completed a new survey for an extension of the electric railway from West Oneonta to Laurens. It is said that the grade is a good one, and is on much higher ground than the one laid out by Mr. Covert last fall.

MOUNT VERNON, N. Y.—It is announced that the Nassau Electric R. R. Co., of Brooklyn, has bought the privileges of the North Mount Vernon Electric R. R. Co. for $15,000. The line is about 1½ miles in length and of late has not been operated.

NEW HARTFORD, N. Y.—It is reported that the New Hartford & Clayville Electric R. R. Co. has applied to the village trustees for a franchise.

OSWEGO, N. Y.—It is reported that the Lake Ontario & Riverside Ry. Co. has purchased a quantity of rails in New York, to cost about $3,000. These rails are required for the new extension of the line in East Bridge St., and it is expected that they will be laid next month. Receiver, F. H. Tidman.

PEEKSKILL, N. Y.—The Railroad Commission has granted the application of the Peekskill Traction Co. for permission to construct an electric street railway in Peekskill and from that village to the state camp and thence to Verplank's Point.

STILLWATER, N. Y.—Work on the Mechanicsville & Stillwater Ry. is progressing rapidly. The track is laid to within about one mile of Waterford.

UTICA, N. Y.—The Railroad Commission announced Aug. 4 that it has granted the application of the Frankfort & Utica Electric R. R. Co. to be permitted to use the overhead electric trolley system. No date has yet been fixed by the commission for the adjourned hearing on the company's application to be allowed to cross the tracks of the West Shore R. R. at grade at a point near Utica. Among those interested are, Col. Clinton Beckwith, of Herkimer, N. Y.; and John V. Quackenbush, of Mohawk, N. Y.

CAMDEN, N. J.—The Camden & Suburban Ry. Co. is laying a second track on Market and Federal Sts. The extension to Beideman's station by way of River Road, Stockton, is also being pushed.

ELIZABETH, N. J.—The Union County Board of Freeholders Aug. 4 received bids for the franchise for a trolley line between Elizabeth and Plainfield. The only bid received was that of John Kean, Pres. Elizabeth City Horse R. R. Co., at $250,000. Mr. Kean previously made an offer of $100,000.

HACKENSACK, N. J.—The reorganization committee of the Union Traction Co. of New Jersey, composed of Eliot Norton, Chm.; Wm. L. Trenholm, Daniel B. Halstead, Max Millian Calm and Geo. G. Duy, of New York, contemplate the completion of the company's line into Hackensack, requiring the construction of 6½ miles of track. Secy., G. Rowland Munroe, care of Van Schaick & Norton, 100 Broadway, New York.

PLAINFIELD, N. J.—It is reported that the Plainfield St. Ry. Co. applied to the council, Aug. 8, for a franchise to operate a trolley line from East 5th St. through Richmond St. to East 2d St., and through the latter street to the city line. The company filed the required number of consents, representing all except 131 feet of the entire street, and as only one remonstrance was presented, the franchise was granted.

PETERSBURG, VA.—At a meeting of the council Aug. 1, an ordinance was passed granting a franchise to the Piedmont Traction Co. of Charlottesville, to build an electric street railway in this city. It is said that the company will begin the construction of the line at once.

SPARTANBURG, S. C.—We are informed that the Spartanburg Gas, Electric Light & St. R. R. Co. has been organized in South Carolina, with a capital stock of $250,000, to acquire property now owned by the Aetna Light & Power Co., which includes the street railway in this city, and a graded road for a freight line to Glendale and Clifton, 10 miles. It is proposed to build the street railway, freight line, etc., as more fully stated under Electric Light and Power. Eliot Norton, Vice-Pres., 100 Broadway, New York.

CLEVELAND, O.—It is reported that the Urban & Suburban Ry. Co. has been incorporated by E. W. Moore; H. A. Everett, Pres. Akron, Bedford & Cleveland R. R., Garfield Bldg., and others. It is proposed to construct an electric railway between Cleveland and Toledo.

DELAWARE, O.—The Delaware Electric St. Ry. was sold by Receiver Cone, July 30, at public auction, to B. W. Brown and others, of Delaware, at $13,525.

LEETONIA, O.—The Leetonia Ry. Co. was incorporated Aug. 4 with a capital stock of $1,000, to construct a railway from Salem township, Columbiana county, to Leetonia. The incorporators are John McKeefrey, W. D. McKeefrey, N. J. McKeefrey, C. R. Shontz and Paul M. Mossman.

MONTICELLO, IND.—Chas. C. Spencer, Pres. Tippecanoe Electric R. R. Co., informs us that the proposed route for this electric railway is from Rochester to Covington and Fowler, via Winamac, Pulaski, Buffalo, Monticello and Lafayette, Ind., a distance of 150 miles. This line does not parallel any other road, and passes through a rich and thickly populated country, in which corn, wheat, etc., is raised in abundance. From 20 to 30 miles of the right of way is secured, and capitalists stand ready to take the bonds and construct the railway.

GRAND RAPIDS, MICH.—The Grand Rapids & Belding Traction Co. contemplates the construction of an electric railway in this city. The company is capitalized at $200,000. Pres., Chas. B. Judd; Vice-Pres., J. P. Creque, both of Grand Rapids.

NILES, MICH.—The Indiana Ry. Co., which proposes connecting St. Joseph, Benton Harbor, Berrien Springs, Niles and other Berrien county points with South Bend, Ind., by an electric railway, has obtained the right of way through all the townships from St. Joseph to Niles, and this latter city will soon be asked for a franchise. If it be not granted the tracks will probably be built on the outskirts, as the company has permission to use Niles township. J. A. Russell, J. S. Hardell and William Van Cleave, of Detroit, Mich., are interested. The new railway will come over the Berrien Road from Berrien Springs to Niles.

LAWRENCE, KAN.—It was formally agreed by the citizens of Lawrence at a mass meeting held July 26 to accept the proposition of Frank Kern, of Mattoon, Ill. and Col. W. D. Ewing, of Boston, for the construction of an electric street railway in this city, and work on the new system is expected to begin at once. It is agreed that five miles of road shall be in operation December 1, and other lines will be built in the spring.

ST. LOUIS, MO.—The president and trustees of Winstanley Park have passed an ordinance granting to the St. Louis, Belleville & Suburban Electric St. Ry. a right of way through the village. Pres., F. F. Espenscheid.——The stockholders of the Central Traction Co. have voted to increase the paid-up capital stock from $100,000 to $5,000,000. It is proposed to construct the line as rapidly as possible. Pres., R. M. Snyder, Kansas City, Mo.; Secy., John H. Blessing, St. Louis.

DENVER, COLO.—The supervisors have passed the Colfax electric franchise over the mayor's veto, thus providing for the operation of an electric line to Montclair.

NELSON, B. C.—It is reported that S. C. Drummond, representing the British Electric Traction Co., London, England, had applied to the council for a charter for an electric railway in this city.

TAMPICO, MEXICO.—Press reports state that an American syndicate is arranging to build an electric street railway in this city.

ELECTRIC LIGHT AND POWER.

NORTH GORHAM, ME.—Press reports state that a contract has been awarded for electrical machinery for the plant in North Gorham at Great Falls, on the Presumpscot River, for the Sebago Power Co. It calls for two 250-K-W. alternators, with marble switchboards and all the necessary fixtures. The Cumberland Illuminating Co. is installing this plant, and will, within 90 days, be supplying power and light to Deering, Westbrook and Cape Elizabeth. A large amount of power can be sold here for motor, and it is understood that the Yarmouth Railway will take power of this company when they are ready to supply it. The company is under the same management as the Belknap Motor Co. The company will expend about $40,000.

BURLINGTON, VT.—The Consolidated Electric Light Co. has been awarded the 3-year contract for lighting this city. There will be required 140 2,000-c.p. arc lights.

HINESBURG, VT.—We are informed that the proposed plant, which will be operated by water power, will have a canacity for 16 arc and 500 incandescent lights; estimated cost, $8,000. Engr., Eugene Sanctuary, Montpelier, Vt.

MONTPELIER, VT.—The Bolton Falls Power Co. has about completed arrangements preparatory to entering upon the work of constructing the dam below the falls, having secured all the rights necessary for the enterprise. About 4,000 HP. will be developed. It is understood that there will be three contracts made—one for building the dam, one for building the power house and one for equipping the power house with machinery. G. H. Almon, Montpelier, G. E. Moody, Waterbury, Vt., and C. L. McMahon, Stowe, Vt., are interested. Engr., H. W. Allen, Manchester, N. H.

AMESBURY, MASS.—It is stated that the Amesbury Electric Light, Heat & Power Co. will purchase a 1,000 incandescent light machine this year. Supt., B. H. Young.

MYSTIC, CONN.—Arrangements are being made by Thos. C. Perkins, Hartford, Conn., for furnishing and constructing the proposed plant to cost about $15,000.

TALCOTTVILLE, CONN.—Talcott Bros. are reported to have begun the construction of a plant.

BUFFALO, N. Y.—Plans have been filed with the bureau of buildings for a brick transformer house to be erected at 2290 Niagara St. by the Cataract Power & Conduit Co. It will cost $2,500.

CHARLOTTE, N. Y.—R. M. Schwartz, Clk., writes us that plans for the proposed plant and water-works have not yet been completed by the Stanwix Engineering Co., Rome, N. Y.; estimated cost of plant, $10,000.

NEWBURG, N. Y.—The Consolidated Gas, Electric Light, Heat & Power Co. has sold $29,000 in bonds for extending its plant, according to reports.

PORT CHESTER, N.Y.—W. S. Comly, Secy. Port Chester Electric Lighting Co., writes us that the company has done nothing yet in regard to building the proposed plant.

MADISON, N. J.—Daniel Burns, of this place, has been awarded the contract for erecting the addition to the electric light plant at $4,500. The council will also purchase a new dynamo and switch board. The improvements in the station and the new engines, wells, dynamo and switch board will cost about $30,000.

VINELAND, N. J.—Capitalists and business men are forming a company to dam Muddy Run, four miles from here, for the purpose of furnishing electric power for manufacturing purposes and lighting the town with electricity.

PHILADELPHIA, PA.—The Pennsylvania Mfg., Light & Power Co., which recently purchased the Hestonville Railway Co.'s power station at 25th and Callowhill Sts., is making plans for the enlargement of the old station.

POTTSTOWN, PA.—Press reports state that the Schuylkill Valley Illuminating Co. proposes to change the 2,000-c.p. lights in Rogersford and Spring City to 1,200-c.p. Supt., W. D. Jones.

DURHAM, N. C.—At the election held Aug. 1 this place voted against issuing $225,000 in bonds for a plant, waterworks, etc.

SPARTANBURG, S. C.—Eliot Norton, Vice-Pres., 100 Broadway, New York, writes us that the Spartanburg Gas, Electric Light & St. R. R. Co. has been organized under the laws of South Carolina, for the purpose of acquiring the property in Spartanburg now owned by the Aetna Light & Power Co., and which comprises the gas and electric light plant, street railway and graded road for a freight line to

Glendale and Clifton, 10 miles. The capital stock of the new company is $250,000. It is proposed to erect a new 50,000-ft. gas holder, extend the mains and service, build a water power for electric service and also to build the street railway and freight line, for all of which the money has been provided. Work will be begun early in September. Ch. Engr., J. Y. McClintock, Rochester, N. Y. Communications to be addressed to the company at its New York office

ATHENS, GA.—The council is reported to have decided to purchase a new 50-arc light dynamo.

COLUMBUS, GA.—Bids were asked by the Columbus Power Co. until Aug. 10 for constructing the proposed power plant to cost complete about $250,000. The contract for the wheels and iron work has been let to the Holyoke Machine Co., Holyoke, Mass., as noted in our issue of July 28.

GALLATIN, TENN.—The council has decided to build a municipal plant, and not grant a franchise, as at first proposed.

NASHVILLE, TENN.—The board of public works is considering the question of lighting the city hospital with 100 16-c.p. and 27 32-c.p. lights.

COVINGTON, KY.—Bids are asked until Aug. 17 for lighting that portion of the city now illuminated with gasoline with either gasoline, gas or electricity. Theo. Von Heone, Cy. Clk.

McARTHUR, O.—Bids are asked until Aug. 25 for furnishing and constructing a plant, described in our issue of July 28. Engrs., E. P. Roberts & Co., 510 Osborn Bldg., Cleveland; Pres. Bd. Trustees, Paris Horton.

MOUNT GILEAD, O.—Burton J. Ashley, Old Colony Bldg., Chicago, Ill., and Wellington, O., has submitted a report and estimates for a plant and water-works to cost complete about $35,000.

RICHWOOD, O.—Edward Schambs, Mansfield, O., has been awarded the contract for furnishing this city with 27 arc lights at $65 a year.

SOUTH CHARLESTON, O.—The question of building a plant is being considered, according to reports.

WOOSTER, O.—The council is reported to have rejected the bids received July 18 for electric lighting. The question of building a city plant is being considered.

MOUNT PLEASANT, MICH.—Congress has voted an appropriation of $10,000 for a plant, water-works, etc., at the Indian School. Supt., Rodney S. Graham.

CASS CITY, MICH.—The Fort Wayne Electric Corporation, Fort Wayne, Ind., has been awarded the contract for furinshing the plant for this place, excepting the engine, which will be furnished by the Ridgeway Dynamo & Automatic Engine Co., Chicago, Ill.

JACKSON, MICH.—Bids are asked until Sept. 1 for constructing a dam, power house, etc., on the Kalamazoo River, for the Allegheny Hydraulic Co., Ltd., as stated in our advertising columns. Address Wm. G. Fargo, Engr., Jackson.

LAWTON, MICH.—This place is considering the question of building a plant. An election to vote on the proposition will probably soon be held. H. C. Lammond, Village Clk.

GREENUP, ILL.—Local papers state that bids will be asked at once by the village board for furnishing and constructing a plant.

MARSHFIELD, WIS.—The council is reported to have asked for bids for lighting the streets. About 30 arc lights will be required. Chas. Schmieler, Cy. Treas.

MILWAUKEE, WIS.—The council will soon vote on the question of issuing $250,000 in bonds for a municipal plant.

DULUTH, MINN.—It is reported that the city will vote Aug. 30 on the question of issuing $100,000 in bonds for electric lighting. H. W. Cheadle, Cy. Clk.

GRAND FORKS, N. DAK.—The council is reported to have voted to build a plant. Population (1897), 12,000. Jno. Dinnie, Mayor; F. A. Brown, Audr.

KANSAS CITY, MO.—Alderman H. M. Beardsley, Chn. Com., is securing information for a municipal plant. Mr. Beardsley will visit Buffalo and a number of eastern cities.——Cornelius Sweetland and R. J. Ingraham, Providence, R. I., have applied for a franchise.

FORT WORTH, TEX.—Press reports state that on Aug. 1 Dr. A. D. Thomas, of Little Rock, Ark., filed application in the federal court for a receiver of the property of the Standard Light & Power Co., of Fort Worth. A hearing will be had before United States District Judge E. R. Meek in this city. The property is valued at $75,000.

HOUSTON, TEX.—Surveys for a site for the proposed municipal plant are being made. Aldermen Tuffly, Rosenthal and Robinson compose the committee.

PARIS, TEX.—Bids are asked until Sept. 1 for lighting the city with arc lights for one to five years, as stated in our advertising columns. Jno. C. Gibbons, Mayor; W. C. Dean, Cy. Engr.

LAFAYETTE, COLO.—It is stated that the Rocky Mountain Power Co. will build a plant at Lafayette for transmitting power about 28 miles to Black Hawk and Central City; estimated cost about $150,000. Vice-Pres., A. N. Page.

SEATTLE, WASH.—Press reports state as follows: The Snoqualamie Falls Power Co. let contracts Aug. 8 for the completion of its plant. Snoqualamie Falls is 22 miles from Seattle, and about the same distance from Tacoma in an air line, and have an unbroken vertical fall of 270 ft. The flow of the river is equal to about 30,000 HP. at low water, and the plan of installation is such that at a small additional expense for dams and reservoirs the entire drainage from the snowfields of the Snoqualamie watershed of 1,000 square miles will be available, making over 100,000 HP., whenever business of the adjacent cities may demand it. The power house is hewn out of the solid rock, 250 ft. beneath the crest of the fall, where the waterwheels connect direct with generators, from which the electricity is transmitted by wire to Seattle and Tacoma. Chas. H. Baker, Seattle, and Wm. H. Baker, ex-Pres. Chicago Bd. of Trade, Chicago, Ill., are interested. Ch. Engr., Thos. T. Johnston, Security Bldg., Chicago.

WOODLEY, ORE.—Press reports state that bids will be received for the Grande Ronde Placer Mining Co.'s electric light installation at Woodley, consisting of a 15-HP. engine; a Thomson-Houston arc dynamo, adapted for 10 2,000-c.p. arc lights; a Westinghouse incandescent dynamo for 15 16-c.p. lights, 100 volts, about seven miles of No. 6 insulated copper wire, together with the necessary aparatus and fittings in connection with plant. Paul Berthon, Baker City, Ore., may be addressed.

BERKELEY, CAL.—The town trustees decided July 26 to ask for bids for lighting the town with electricity for two years; check, $2,000.

HEALDSBURG, CAL.—Bids are asked until Aug. 26 for constructing a plant and water-works, and also for the purchase of $80,000 of 5% bonds, as stated in our advertising columns. C. H. Pond, Cy. Clk.

RED BLUFF, CAL.—It is stated that the Tehama Electric Co. will purchase two additional dynamos for its new plant. James Cross, San Francisco, Cal., and Wm. Sanders are interested.

THOROLD, ONT.—Bids are asked by the mayor until Aug. 17 for furnishing a plant of 1,500 to 2,000 lights capacity. Engr., R. J. Parke, 310 Foresters Temple, Toronto, Ont.

NELSON, B. C.—The question of either purchasing the present plant or of building a new one at a cost of about $40,000 is being considered, according to reports.

NEW COMPANIES.—National Light & Power Co., New York, N. Y.; $5,000,000, with $1,000 paid in. E. S. Savage, Rahway, N. J.; M. D. Valentine, Woodbridge, N. J.; Albert Bruns, Bronx Borough, New York; A. L. Sherer, Manhattan Borough, New York.

Worthington Water & Light Co., Worthington, Ind.; $5,000; John H. Brown, B. O. Mayer, Fuller McClellan.

Cherubusco Water & Light Co., Cherubusco, Ind.; $5,000; J. H. Brown, B. O. Mayer, Fuller McClellan.

Central Operating & Construction Co., Fond du Lac, Wis.; to build a light plant and water-works; Maurice McKenna, C. D. Smith.

BRIDGES.

SALEM, MASS.—The county commissioners have awarded the contract for building a bridge over Forest River at this city to Thos. Fitzgibbons, Beverly, Mass., at $18,725.

MOUNT VERNON, N. Y.—The council is considering the question of building bridges on South Fulton Ave., East Lincoln Ave., East Third St. and East Sixth St. Edwin W. Fiske, Mayor.

JERSEY CITY, N. J.—Bids are asked by the board of freeholders until Aug. 19 for the purchase of $26,000 of county bridge bonds.

NEW BRUNSWICK, N. J.—Bids are asked until Aug. 17 for repairing the Cheesequake Bridge. R. J. Dougherty, Cy. Engr., 113 Albany St.——The contract for the Washington Ave. bridge has been awarded to Wm. Farrier, New York, N. Y., at $1,565.

NUTLEY, N. J.—Bids are asked until 2.30 p. m., Aug. 11 for constructing a bridge over Third River, on Harrison St., to have steel beams, brick arches and masonry abutments. James Owen, County Engr., 800 Broad St., Newark.

PATERSON, N. J.—The board of freeholders will have plans prepared for the construction of a new bridge at Main St.

COCALICO, PA.—Bids are asked until Aug. 20 for constructing an iron bridge 75 ft. long and 16 ft. wide, over Cocalico Creek. John B. Eshleman, Chn. Comrs., Lancaster, Pa.

MEHOOPANY, PA.—The Mehoopany Bridge Co. has been incorporated with a capital stock of $25,000, to construct and maintain a toll bridge over the Susquehanna River. The directors are: Elley Calby, Owego, N. Y.; F. L. Slitser, S. J. Stark, C. A. Little and John B. Fosset, Tunkhannock, Pa.

PITTSBURG, PA.—The Creighton Bridge Co., Pittsburg, with a capital stock of $100,000, has been authorized to construct a bridge over the Allegheny River. The directors are: C. G. L. Peffer, M. D. Weyman, Mark D. Weyman and J. Frank Peffer, of Tarentum, Pa.

WESTCHESTER, PA.—Bids were asked until Aug. 10 for constructing a 76-ft. iron bridge at Landenberg, and also for the removal of the old iron structure. R. T. Garrett, Chn. Comrs.

CUMBERLAND, MD.—Reports state that the West Virginia, Central & Pittsburg Ry. Co., will construct a 250-ft. plate girder bridge, on the extension to Huttonsville. J. W. Galbreath, Ch. Engr., Cumberland.

BELLAIRE, O.—Reports state that an effort is being made to have the council construct a bridge from Franklin St. to Central Ave., on Rose Hill.

CINCINNATI, O.—F. S. Krug, County Engr., has recommended that the contract for building the substructure for two bridges on the Banklick road be let to Reubel Bros., at $2,050.

DELAWARE, O.—Bids are asked until Aug. 19 for constructing a steel bridge over the Olentangy River, in Liberty township, according to reports. E. S. Mendenhall, County Surveyor.

LONDON, O.—Bids are asked until Aug. 25 for constructing an iron superstructure and for the masonry work of six bridges, according to reports. W. D. Wilson, County Audr.

MOUNT VERNON, O.—Bids are asked until 12 m., Aug. 12, for furnishing the material and constructing an iron superstructure 110 ft. × 16 ft., over the Kokosing River, at Browns ford. W. A. Wander, County Audr.

SPRINGFIELD, O.—Plans have been submitted to the board of public affairs by Wm. Bagley, for a bridge of two spans, 41 ft. each; to cost about $4,500.

PLYMOUTH, IND.—N. E. Leonard, Jr., Cy. Clk., informs us that a contract has been awarded to W. P. Bassett, of the Rochester Bridge Co., Rochester Ind., at $2,950, for constructing a bridge over Yellow River.

CARMI, ILL.—The county supervisors have awarded the St. Louis Bridge Co., St. Louis, Mo., a contract at $1,629, for building three steel bridges over French Creek.

CHICAGO, ILL.—Bids are asked until Oct. 5 for furnishing and erecting certain bridge superstructures on the line of the river diversion channel of the Desplaines River. Jas. Reddick, Clk. Bd. Sanitary Trustees, Security Bldg., Chicago.——The following are the lowest bids received by the sanitary trustees Aug. 3 for building certain bridges: Summit and Lyons Highway, C. L. Strobel, $12,620; Chicago Terminal Co., Desplaines River, Wisconsin Bridge & Iron Co., $7,318; Romeo Highway, Heldmaier & Neu, $9,659; Chicago, Madison & Northern, Kedzie Ave., McArthur Bros., $5,743; Lemont Highway, Sackley & Petersen, $4,351; Willow Springs Highway, Sackley & Petersen, $5,386; Chicago Terminal Co., Desplaines River, Heldmaier & Neu, $7,500; Summit and Lyons Highway, Section F, McArthur Bros., $18,577; C. L. Strobel, Willow Springs Highway, main channel, Lemont Highway, Romeo Highway, $14,990 each.

ELORY, WIS.—We are informed that W. G. Kirchoffer, Engr., Baraboo, Wis., is preparing plans for a bridge to be constructed across the Baraboo River.

LA MOURE, N. DAK.—Bids are asked until Aug. 22 for constructing a bridge over the James River, according to reports. Chas. Allister, County Audr.

GRASS VALLEY, CAL.—The supervisors have asked for bids for building a new bridge over the Greenhorn Creek, between You Bet and Little York.

BRANTFORD, ONT.—Bids are asked until Aug. 20 for constructing a 100-ft. span highway bridge over a part of Grand River. T. H. Jones, Cy. Engr.

BUILDINGS

BOSTON, MASS.—Bids are asked by the city school committee, Mason St., until Aug. 15, for building an addition to the Norcross school building, on D and 5th Sts., South Boston. Chn., Thos. F. Strange.

CHICOPEE, MASS.—Bids are asked until Aug. 17 for building a 4-room brick school building on Grape St.; also for heating, ventilating and plumbing of the same. Chas. M. Bixby, Chn. Comrs.

SPRINGFIELD, MASS.—The contract for the erection of the new Alden St. school building has been awarded to J. Shea & Sons, of Springfield, at $22,436, according to reports.

HARTFORD, CONN.—Bids are asked until Aug. 12, up to 2 p. m., for erecting additions to the Northwest school building. George Calder, Chn. Bldg. Com.; Hapgood & Hapgood, Archs., 141 Trumbull St.

NEW HAVEN, CONN.—The following bids were received Aug. 8 for the erection of a lighthouse on the outer breakwater, New Haven Harbor:

Michael J. Kennedy, 189 Montague St., Brklyn., N. Y.	$21,000
Houston Construction Co., Grand Bldg., Philadelphia.	27,746
Engineering Contract Co., 15 Broad St., New York.	32,000
Ambrose F. Dudley, 100 Broadway, New York	33,950
F. C. Arthur & Co., 515 Girard Bldg., Phila., Pa.	36,495
Wm. H. Flaherty & Co., 80 and 82 Reade St., N. Y.	42,919

FORT SLOCUM, N. Y.—Bids are asked until Aug. 31 for the construction of a post hospital at this place. Address Wm. J. Snow, 1st Lt., 7th Art., Q. M.

NEW YORK, N. Y.—Plans have been filed by Patrick H. Lynch, Owner and Arch., 642 West 138th St., for eight 4-story dwelling houses on 142d St., near Hamilton Place, to cost $96,000; by B. L. Connolly, 309 West 77th St., for a 7-story brick flat and store building on the Boulevard near 104th St., to cost $45,000. Arch., A. O. Hoddick, 57 West 24th St.——George Vassar's Son & Co., 111 5th Ave., have been awarded the general contract for erecting a 2-story brick warehouse, 153 × 80 ft., at 52 to 60 Vandam St., for the Trinity Church Corporation. Arch., Chas. C. Haight, 111 Broadway.——The iron contract for the new 10-story loft and office building to be erected for the Lorillard Estate, 3 Mercer St., at 296 Broadway, has been let to John J. Radley & Co. Archs., Jordan & Giller, 19 Park Place.

NIAGARA UNIVERSITY, N. Y.—A fire in the chapel of the Niagara University Aug. 5 caused a reported loss of $70,000; insurance, $19,000.

SYRACUSE, N. Y.—D. P. Plaisted & Son, of Syracuse, have been awarded the contract for heating and ventilating Jefferson school building at $1,641.

SYRACUSE, N. Y.—Bids are asked until Aug. 13 at 10 a. m., for heating and ventilating the new addition to the library building. Clk., E. W. Mundy.

BLOOMFIELD, N. J.—Peter Vanderhoof & Son, Newark, N. J., have been awarded the general contract for the Essex Ave. school building, to cost about $35,000. Arch., Chas. G. Jones, 280 Broadway, New York.

EAST ORANGE, N. J.—Meeker & Lewis, 130 Broadway, New York, has received the carpentry contract, at $9,213, for a building to be erected at Main St. and Mitchell Place for Emma F. Childs, 55 Cortlandt St., New York; Wm. H. Connolly has the mason contract, at $6,962. Arch., J. C. Westervelt, 487 Fifth Ave., New York.

LONG BRANCH, N. J.—An election will be held at this place on Aug. 16 to consider the advisability of appropriating $45,000 for a new high school building.

NEWARK, N. J.—It is reported that Wm. H. Connelly has the mason contract, at $7,197, and L. C. Becker & Bro. have the carpentry contract, at $5,878, for the building to be erected on South 9th St. for the Dominican Fathers of St. Antoninus's Church. Arch., Nathan Myers, Metropolitan Bldg., Newark.

ORANGE, N. J.—The plans of Carr, Poole & Lum, of New York, are reported to have been selected for the new 5th Ward school building; estimated cost, $40,000. As all the bids for the construction of the addition to the Lincoln Ave. school building exceeded the appropriation of $15,000, they were rejected, and the special committee was instructed to have the plans modified by the architect so as to come within the limit.

PASSAIC, N. J.—Bids are asked by the board of education, 255 Main Ave., until Aug. 25, for the construction of a new school building at Bergen and 2d Sts. Arch., Wm. M. Meeker.

PATERSON, N. J.—Bids are asked by the supervising architect, Washington, D. C., until Aug. 22 for a low pressure, return circulation, steam heating and ventilating apparatus for the U. S. building in this city.

ALLEGHENY, PA.—It is reported that the Baltimore & Ohio R. R., operating the Pittsburg & Western R. R., will erect a new passenger and freight station at Federal St. and River Ave., which will be completed before winter sets in.

BRADDOCK, PA.—Plans have been prepared for a 16-room school building to be erected on Washington Ave. at a cost of about $40,000. Archs., E. J. Carlisle & Co., 700 Lewis Bldg., Pittsburg, Pa.

GREENSBURG, PA.—D. M. Fair & Son, Blairsville, Pa., have been awarded the contract for building an additional story and otherwise improving the Masonic Temple at this place, at a cost of $10,800.——Plans have been selected for the proposed new hospital building 152 × 92 ft., to be erected in Greensburg. Archs., Beezer Bros., Mateen Bldg., Altoona, Pa.

LEBANON, PA.—Bids are asked until Aug. 31 for the erection of Salem Memorial Sunday-School Chapel, for the congregation of Salem Lutheran Church of Lebanon. Address Geo. W. Hayes; Archs., Roby & Richter, 773 Cumberland St., Lebanon.

PHILADELPHIA, PA.—The contract for erecting a 3-story building for the Psi Upsilon Society of the University of Pennsylvania is said to have been let to Thos. Little & Sons, 221 Pear St., to cost about $27,000.

YORK, PA.—The erection of a new city hall building, to cost $50,000, is contemplated.

WOODVILLE, PA.—Bids are asked by the commissioners of Allegheny county until Aug. 15 for the erection of certain buildings to be erected at Woodville; bond required, $25,000. W. E. Thompson, County Controller; F. J. Osterling, Arch., 701 Times Bldg., Pittsburg, Pa. Bids were received for this work on Aug. 3, but as the lowest, that of D. P. Osterling, at $237,600, was above the appropriation, new bids had to be asked.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Aug. 22 for constructing an additional story to engine house No. 14 on 8th St., N. W.; also until Aug. 20 for constructing an addition to station house No. 8, on U St., N. W.——The following bids have been received for erecting four general passenger elevators, one private passenger elevator, one freight elevator, three mail lifts and two freight lifts for the post-office building in this city:

		Time.
Standard Elevator & Mfg. Co., Chicago, Ill.	$75,900	Specified
Otis Bros. & Co. (Pump A), New York.	72,500	Dec. 1
Otis Bros. & Co. (Pump B), New York.	74,800	"
Morse, Williams & Co., Philadelphia, Pa.	76,400	"
McAdam & Cartwright Elev. Co., N. Y.	69,500	"
Eaton & Prince Co., Chicago, Ill.....	45,000	6 mos.

WASHINGTON, D. C.—The commissioners have awarded the contract for the construction of a boiler house on the grounds of the Industrial Home School to Paverini & Greer, at $2,900.

CHATHAM, VA.—The supervisors of Pittsylvania county have awarded to the B. F. Smith Fire Proof Construction Co. the contract for remodeling the basement of the court house into a fireproof record room, at $6,900.

NATIONAL SOLDIERS' HOME, VA.—Bids are asked until Aug. 26 for constructing two wooden barrack buildings on the grounds of the National Home for Disabled Volunteer Soldiers. Treas., Wm. Thompson.

ROANOKE, VA.—Bids are asked until Aug. 23 for erecting a high school building. Secy., E. L. Slaughter.

HUNTSVILLE, ALA.—Contracts towards the erection of the Madison county jail building have been let to Jonas Dyas, of Huntsville, for 200,000 bricks; to Hutchens & Murdock, of Huntsville, for plumbing, at $3,600.

DELPHOS, O.—Bids are asked until Aug. 30 for erecting a brick school building in school district No. 9. Otto W. Moennig, Clk. Bd. of Education, Delphos.

CHICAGO, ILL.—It is reported that the Chicago City Ry. Co. intends to erect a large casino and pavilion at the northwest corner of Cottage Grove Ave. and 61st St., at a cost of $400,000.

FREEPORT, ILL.—We are informed that an issue of $35,000 of 5% has been authorized for the erection of a new city hall building; and that bids will soon be asked for constructing a building to cost about $40,000. F. C. Kruse, Chn. Bldg. Com.; Geo. H. Tandy, Cy. Clk.

WASECA, MINN.—Bids are asked until Aug. 16 for erecting a new church building for the Church of the Sacred Heart. Arch., J. M. Doherty, Rochester, Minn.

WINNEBAGO CITY, MINN.—Bids are asked until Aug. 21 for constructing a new church building and remodeling old buildings for the Presbyterian Church of this city. David Secor, Pres. Bd. of Trustees; S. J. Bowler, Arch., 3 Collom Bldg., Minneapolis, Minn.

IOWA CITY, IA.—Bids are asked by the regents of the State University of Iowa until Aug. 23 for the construction of the foundations and basement of the collegiate building. Secy., Wm. J. Haddock, Arch.; Proudfoot & Bird, 320 5th St., Des Moines, Ia.

WICHITA, KAN.—Bids are asked until Aug. 22 for erecting an addition for the Masonic Home, including heating and plumbing. Archs., J. C. Holland & Co.

BAKERSFIELD, CAL.—Frank Sharples has the contract for erecting the Scribner opera house at $14,420.

STRATFORD, ONT.—E. A. Cawsey and J. L. Youngs, of Stratford, has been awarded the contract for erecting a new municipal building in this city, at $27,787. Archs., Geo. W. King and J. W. Siddall, of Toronto, Ont.

WATER-WORKS.

LEWISTON, ME.—The question of a purer water supply is being considered, according to local papers. The council committee has been investigating various methods of water filtration. It is estimated that a filter will cost about $35,000.

BILLERICA, MASS.—Bids are asked until Aug. 16 for furnishing and laying water pipe; check, $100. Engr., E. Worthington, Billerica.

HUNTINGTON, MASS.—R. D. Maynard, Springfield, Mass., has been awarded the contract at $6,611 for constructing the works.

MALDEN, MASS.—The aldermen have appropriated $800 for purchasing new hydrants.

NEW BEDFORD, MASS.—Bids are asked until Aug. 19 for building the Quittacas gate-houses. Engrs., Rice & Evans, 95 Milk St., Boston; Supt., R. C. P. Coggeshall.

PITTSFIELD, MASS.—The water department proposes to extend the mains to Tillotsons at a cost of about $10,000.

WATERTOWN, MASS.—Press reports state that the Watertown Water-Works Co. and the committee appointed by the town to take and manage the works have about reached an agreement. The company wanted over $450,000, while the town would give but $400,000. Both sides have agreed that the price shall be left to three referees, to consist of Moses Williams, John C. Freeman and Solomon Lincoln.

ALBANY, N. Y.—The contract for erecting a pumping station and intake for the water filtration plant has been let to Stone & Thurston, New York, at $2,977.——Wm. A. Reynolds has been awarded the contract for laying water mains in several streets, at $2,730.——The council has been asked to appropriate $22,000 for cleaning and improving the Bleecker reservoir. Geo. I. Bailey, Supt.

ALDEN, N. Y.—An election will be held Aug. 25 to vote on the question of issuing bonds to build works to cost about $16,000. Engr., J. F. Witmer, Ellicott Square, Buffalo, N. Y.

AMSTERDAM, N. Y.—It is proposed to build a new main from the distributing reservoir and also a new dam. S. E. Babcock, Cy. Engr. of Little Falls, N. Y., has furnished data to the council.

CHARLOTTE, N. Y.—R. M. Schwartz, Clk., writes us that specifications for the works are being prepared by the Stanwix Engineering Co., Rome, N. Y. The supply will be secured from Lake Ontario. Population, 1,305.

COPENHAGEN, N. Y.—The village trustees have been petitioned to take steps toward securing works.

DEPEW, N. Y.—It is reported that the residents of this place are endeavoring to have a pipe line laid from Buffalo to furnish the town with an increased water supply. Geo. Urbans, Jr., and J. J. Albright may be addressed.

GENESEO, N. Y.—An election will be held Aug. 15 to vote on the question of appropriating $8,000 for the purchase of a new pump for the station at Conesus Lake.

RHINEBECK, N. Y.—Wm. R. Hutton, 35 Broadway, New York, has submitted estimates for works to cost about $58,000 if the water is secured from Brown Pond, or about $50,000 if secured from wells, with a reservoir located on Gerger's Hill. Dr. Frank Latson, Pres. Village Bd.

ROME, N. Y.—The Stanwix Engineering Co. of this place has submitted estimates for gravity works, to cost about $150,000. It is proposed to secure the new supply of 8,000,000 gallons from Fish Creek.

TICONDEROGA, N. Y.—F. B. Richards, Pres., writes us that the proposed extension of the pipe line laid above the ground was to help out the reservoir at low water. The scheme for the present has been abandoned.

BRIDGETON, N. J.—Bids are asked until 7 p. m., Aug. 12, for furnishing and erecting a steel water tank, 100 ft. in diameter, and 33 ft. high, with steel skeleton frame for the top of the same (about 275,000 lbs.). Timothy Woodruff, Supt. Water-Works; David S. Blew, Chn. Water Com.

FORT LEE, N. J.—W. O. Allison and A. G. Sage, of Englewood Cliffs, N. J., have organized a water company to supply this place with water. The supply will be secured from artesian wells.

GLOUCESTER CITY, N. J.—The council is reported to have decided to ask for bids for furnishing a new pump of 2,500,000 gallons capacity. Supt., H. M. Hailey.

HAMMONTON, N. J.—A town meeting will soon be called to consider the question of granting a franchise to the Hammonton Water Co. A. H. Sutton, Pres, Bd.

PRINCETON, N. J.—H. B. Hooker & Son, Rochester, N. Y., are reported to have been awarded the contract for constructing 925 ft. of submerged pipe, a new well and a circular pump house for the Princeton Water Co.

BRADDOCK, PA.—Cronin & O'Herron, Pittsburg, Pa., have been awarded the contract, at about $20,600, for laying 13,630 ft. of 16 and 12-in. pipe. Supt. of Pub. Wks., Wm. Howat.

CHAMBERSBURG, PA.—Bids are asked until Aug. 20 for furnishing a 1,500,000-gallon power pump for the water-works, as stated in our advertising columns. Dr. P. B. Montgomery, Water Comr.

DUBOIS, PA.—The question of securing an increased water supply is again being considered.

FAYETTE CITY, PA.—Jno. Mullin, Cy. Clk., writes us that there are no prospects of works being put in at present, or in the near future, as has been reported. Population, 1,200.

KNOXVILLE, PA.—An election will be held Aug. 23 to vote on the question of issuing $12,000 in bonds for works, according to reports.

McKEESPORT, PA.—Bids are asked until Aug. 15 for furnishing 5,000 ft. of cast-iron water pipe, sinking five new wells, laying suction pipe, and for furnishing an iron fence at the high service station. R. A. Hutchins, Cy. Controller.

MILLVALE, PA.—The council it reported to have decided to purchase an additional pump for the water-works.

NAZARETH, PA.—Frank Kunkel, Secy. Nazareth Water Co., writes us that nothing further has been done than to appoint a committee to negotiate for the site for the additional water supply. The committee, it is expected, will report in a few days. As soon as the site is secured plans will be prepared.

PHILADELPHIA, PA.—Plans for the new reservoir on George's Hill for supplying water to West Philadelphia are about completed. Bids will probably soon be asked. The plans provide for a single basin extending to the northwest of the present reservoir. It will cover about 10 acres and will be about 30 ft. deep. The site selected is now a natural basin, with walls on the north, south and west sides, so that it will be necessary to build only one wall on the east side. The capacity of the reservoir is to be 50,000,000 gallons, at a depth of 20 ft. and 40,000,000 gallons at a depth of 15 ft. The present basin holds 40,000,000 gallons. The greatest elevation of the site is 222 ft., and, as at present contemplated, the surface of the basin will be at a height of 216 ft. above sea level. Estimated cost, $500,000.

STRASBURG, PA.—The proposition of the Strasburg Water Co. to furnish complete works for the borough has been accepted by the council, the price of the works being $19,000. Edgar B. Kay, Engr., Strasburg Water Co.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Aug. 22 for driving wells, as stated in our advertising columns.——Col. Bingham, in charge of public buildings and grounds, in his annual report to the Chief of Engineers, just submitted, says that the need of a new conduit between Great Falls and the distributing reservoir is only a matter of time. The daily consumption of water for the past year was 47,000,000 gallons, or 170 gallons per capita per day. The conduit is capable of discharging into the reservoir about 76,500,000 gallons a day. The daily consumption has increased from 35% of the conduit capacity ten years ago to 62% now. The work of raising the height of the dam at Great Falls in order to increase the water supply of Washington was completed this year at a cost of $101,373.

LAUREL, MD.—W. H. Minch, of the Laurel Water-Works Co., Baltimore, writes us that nothing has yet been done in regard to putting in the proposed works. Address Jos. M. Cone, The Severn, Baltimore, Md.

POCOMOKE CITY, MD.—R. M. Stevenson, Mayor, writes us that Pownall & Minshall, 150 Nassau St., New York, have been engaged to make surveys and plans for the proposed works and sewerage system. Bonds for the improvement will soon be issued.

RICHMOND, VA.—The council has adopted resolutions looking to the filtering of the water supply.

HARPER'S FERRY, W. VA.—J. L. Dailey, Mayor, writes us that nothing toward securing works has been done except to get the sentiment of the people on the question. An official election will probably be held soon.

WHEELING, W. VA.—L. G. Hallock, Wheeling, has been awarded the contract for building the new pumping station at $37,807. Of this amount the well and river connection will cost $27,120, and the building, $10,687. This contract does not include the pumping engine of 12,000,000 gallons capacity. This contract will be let later. A. L. White, Cy. Engr.

DURHAM, N. C.—This place voted Aug. 1 against issuing $225,000 in bonds for works, an electric plant, etc.

MOBILE, ALA.—Bids are asked until Sept. 12 for the purchase of $750,000 of 4½% water-works and sewerage bonds. John Craft, A. S. Lyons, Finance Com.

McCOMB CITY, MISS.—Bids are asked by the mayor until Sept. 21 for furnishing and building works. Engrs., Sanders & Porter, Columbia Bldg., Louisville, Ky.

SARDIS, MISS.—This place having voted July 25 to build works, has engaged Alber & Byrne, Birmingham, Ala., to prepare plans and specifications for the works. J. Q. West, Mayor.

CHICAGO JUNCTION, O.—Bids are asked until Aug. 15 for building the power station, furnishing boilers, pumping machinery, connecting wells, etc. Engr., Chas. Sturtevant, St. Louis, Mo.; Clk., Louis Simmermacher.

CINCINNATI, O.—The water-works commission has awarded the contract for furnishing the sluice gates for the new works at California, O., to the Vulcan Iron Works Co., Chicago, Ill., at $8,079.

MOUNT GILEAD, O.—Burton J. Ashley, Old Colony Bldg., Chicago, has submitted a report and estimates for works and an electric plant to cost complete about $35,000; for water-works alone the cost will be $26,800. An election will soon be held to vote on the question of issuing the necessary bonds.

CHURUBUSCO, IND.—The council is reported to have voted to grant a franchise to the Churubusco Water & Light Co. The company was incorporated last month with a capital stock of $5,000, by J. H. Brown, B. O. Mayer and Fuller McClellan.

WORTHINGTON, IND.—The Worthington Water & Light Co. has been incorporated with a capital stock of $5,000, by John H. Brown, B. O. Mayer, and Fuller McClellan.

LA PORTE, IND.—An election will probably be held Aug. 23 to vote on the question of improvements to the works and the water supply. The committee consists of Chas. G. Replogle, W. C. Weir and Jno. C. Wilhelm.

BENTON HARBOR, MICH.—The question of securing a better water supply is being considered. It is proposed to extend the intake into Lake Michigan at a cost of about $25,000.

CASS CITY, MICH.—The following have been awarded contracts for furnishing and building the works and electric plant, to cost $18,000: Pumping machinery—Dean Bros. Steam Pump Works, Indianapolis, Ind.; Boiler—McKinnon Mfg. Co., Bay City; Heater—Stillwell-Bierce & Smith-Vaile Co.; Cast-iron pipe—American Pipe & Foundry Co., Chattanooga, Tenn., and Cincinnati, O.; Hydrants—Michigan Brass & Iron Works, Detroit; Valves and boxes—Rensselaer Mfg. Co., Troy, N. Y.; Dynamos, Switchboards, etc.—Fort Wayne Electric Corporation, Fort Wayne, Ind.; Engines—Ridgeway Dynamo & Automatic Engine Co., Chicago.

HUBBARDSTON, MICH.—The village board is considering the question of putting in small works for fire protection only.

LAKE ODESSA, MICH.—This place will vote Aug. 16 on the question of issuing $11,000 in bonds for works, according to reports.

LAURIUM, MICH.—It is reported that this place will vote on the question of issuing $15,000 in bonds for works.

LAWTON, MICH.—This place voted July 26 against issuing $9,500 in 5% bonds for works.

MOUNT PLEASANT, MICH.—Congress has appropriated $10,000 for water-works, a sewerage system, etc., for the Indian school here. Supt., R. S. Graham.

PAW PAW, MICH.—Bids are asked until Aug. 17 for furnishing the material and for building the proposed works, to cost about $18,000, as stated in our advertising columns. Wm. H. Mason, Village Clk.

YALE, MICH.—Mac Walker, Fenton, Mich., has been awarded the contract for furnishing the material and for building the works, at $10,987.

GRAYVILLE, ILL.—The council is reported to have appropriated $32,000 for building a new reservoir for the water-works. It is stated that work will soon be begun.

OXFORD JUNCTION, IA.—Bids are reported as being asked by the city clerk for furnishing and constructing works.

BLAIR, WIS.—Stevens & Vincent, Chippewa Falls, Wis., are reported to have been awarded the contract for building the works at $4,154.

ARKANSAS CITY, KAN.—An election will be held Aug. 12 to vote on the question of issuing $95,000 in water bonds.

LA PLATA, MO.—Press reports state that this place will soon issue $40,000 in bonds for works.

CRIPPLE CREEK, COLO.—Press reports state that at a meeting of the council Aug. 3, the committee, consisting of N. M. Selgsred, A. E. Carlton and H. L. Shepherd, made its report and recommended the purchase of the works of the Michigan Pipe Line Co., for $292,000. The report was accepted.

DENVER, COLO.—John C. Swan, Greeley, Colo., has been awarded the contract for sinking an artesian well 1,000 ft. deep for the capitol grounds.

GRAND JUNCTION, COLO.—The council is reported to have repealed the ordinance passed in April to purchase the works of the Grand Junction Water Co. for $55,000. It is stated that the company failed to furnish title. W. P. Ela, Mayor.

BENICIA, CAL.—It is reported that the Benicia Water Co. will soon begin the construction of improvements to the works to cost about $15,000. Baker & Hamilton are interested.

GREENVILLE, CAL.—Bids are asked until Aug. 23 for furnishing and constructing works and a sewerage system for the Indian School here. Supt., Edward N. Ament.

HEALDSBURG, CAL.—Bids are asked until Aug. 26 for furnishing the material and for constructing the proposed works and light plant, and also for the purchase of $80,000 of 5% bonds for the work, as stated in our advertising columns. C. H. Pond, Cy. Clk.

LOS ANGELES, CAL.—The Consolidated City Water Co. has been incorporated with a capital stock of $2,480,000, by W. H. Perry, W. J. Broderick, S. H. Mott and H. W. Hellman.

SHERBROOKE, QUE.—The question of extending the water mains in certain streets is being considered.

PETERBORO, ONT.—Bids are asked until Aug. 15 for furnishing and building works for Ashburnham. Specifications, etc., may be seen at the office of the Peterboro Water Co. John Wood, Clk.

WINNIPEG, MAN.—Bids are asked until Sept. 6 for constructing wells and pumping station for the supply of 4,000,000 gallons of water daily, as stated in our advertising columns. H. N. Ruttan, Cy. Engr.; C. J. Brown, Cy. Clk.

SEWERAGE

LAWRENCE, MASS.—It is probable work on sewers in certain streets will soon be begun at a cost of about $7,000.

NORTH SOMERVILLE, MASS.—Bids are asked until Sept. 3 for furnishing pumping engines, etc., for an addition to the sewage pumping plant at North Somerville, as stated in our advertising columns. Wm. M. Brown, Jr., Ch. Engr. Metropolitan Sewerage Comrs., 1 Mount Vernon St., Boston.

TAUNTON, MASS.—The council has voted to appropriate $16,000 for new sewers.

EAST HARTFORD, CONN.—The Meadow Fire District is again considering the question of building sewers in the business portion of the city.

WEST HARTFORD, CONN.—A. B. Alderson, 68 Gladden St., New Britain, Conn., is making surveys for the purpose of designing a system for West Hartford Centre.

DUNKIRK, N. Y.—Bids are asked until Aug. 16 for constructing a 12-in. pipe sewer in Fox St. W. C. Baumgartner, Cy. Clk.

LITTLE FALLS, N. Y.—The council has voted to build sewers in three streets, at a cost of about $20,000. Mayor Dasey may be addressed.

SYRACUSE, N. Y.—John W. Bustin has been awarded a contract at $50,000 for building a trunk sewer in Midland Ave.

BAYONNE, N. J.—Martin Murray has been awarded the contract for constructing a new sewer in certain streets at $17,200.

NEWARK, N. J.—The question of the sewering of the Clinton Hill annexed district of Newark was considered by the board of works Aug. 4. A delegation of property owners in the district appeared before the board and urged the building of lateral sewers. Engineer Ernest Adam submitted a report recommending the building of a trunk sewer in Clinton Ave. and another in Clinton Place and Runyon St., to cost about $59,000. Rudolph Hering, New York, made a report indorsing Engineer Adam's plans for a lateral sewer system in the Tenth and Twelfth Wards.

PLAINFIELD, N. J.—Bids are asked until Aug. 25 for filling two disposal beds at the sewage disposal farm. E. T. Barrows, Chn. Com.

RED BANK, N. J.—The council has been petitioned not to build an outlet sewer to the Shrewsbury River.

SOUTH ORANGE, N. J.—A conference was held in South Orange Aug. 3 between representatives of South Orange, Irvington, Vailsburg, Newark and West Orange in reference to the proposed sewer to carry the sewage of the different localities to tidewater. Reports state that it was decided to employ Alexander Potter, 137 Broadway, New York, to make a preliminary survey of the outlet sewer to tidewater and submit his estimate of the cost.

BELLEVUE, PA.—Harvey Sloan has been awarded the contract for building the proposed system at $58,000.—— The council has asked for bids for the purchase of $48,000 of sewer bonds.

PHILADELPHIA, PA.—The bureau of surveys has decided to enlarge the 3-ft. brick sewer in Chestnut St.

PITTSTON, PA.—Bids are asked until Aug. 11 for constructing lateral sewers, etc. J. H. Mullin, Cy. Clk.

READING, PA.—The board of public works has recommended that the contract for building the house sewer in the 9th District be let to Samuel W. Frescoln, Reading, at $41,878. The next lowest bid was submitted by David Peoples, Philadelphia, at $43,375.

SOUTH BETHLEHEM, PA.—We are informed that this place voted July 26 not to build a system. Chas. E. Webster, Burgess.

POCOMOKE CITY, MD.—R. M. Stevenson, Mayor, writes us that Pownall & Minshall, 150 Nassau St., New York, have engaged to make a survey and plans for a system and water-works. Bonds for the improvements will soon be issued.

RICHMOND, VA.—The council is considering the question of building certain sewers. Councilman Allen, Chn.

CONCORD, N. C.—Bids are asked by the mayor until Aug. 15 for constructing 9,000 ft. of 15 to 8-in. pipe sewers.

OWENSBORO, KY.—Bids are asked until Aug. 15 for building sewers in certain streets. W. P. Small, Mayor.

CLEVELAND, O.—Bids are asked until Aug. 11 for constructing sewers in three streets; and until Aug. 25 for constructing sewers in three streets; checks $500 to $2,000. Geo. R. Warden, Dir. Pub. Wks.

SPRINGFIELD, O.—The council is considering the question of building sewers in several streets.

PERU, IND.—Bids are asked by the city clerk until Aug. 30 for constructing lateral sewers.

RICHMOND, IND.—The council is considering the question of building sewers next season to cost about $25,000. Mayor Ostrander may be addressed.

HIGHLAND PARK, MICH.—Jas. Hanley, Detroit, has been awarded the contract for building sewers at $51,850. The outlet will be into the Detroit system.

LAURIUM, MICH.—This place voted in July to issue $35,000 in bonds for a system, and $15,000 in bonds for extending the water works.

MOUNT PLEASANT, MICH.—Congress has appropriated $10,000 for a sewer, water-works, etc., for the Indian School. Supt., R. S. Graham.

PONTIAC, MICH.—Bids are asked until Aug. 19 for constructing 1,600 lin. ft. of 8-in. lateral sewer, as stated in our advertising columns. Wm. J. Fiske, Cy. Engr.

SAGINAW, MICH.—Bids are asked until Aug. 12 for building sewers in several streets. Alfred Davies, Clk. Bd.

BELLEVILLE, IL.—Bids are reported as having been asked by the city clerk for building pipe sewers in two streets.

CHICAGO, ILL.—Bids are asked until Aug. 17 for building sewers in a number of streets. L. E. McGann, Pres.

ELMHURST, ILL.—This place will build 640 ft. of 12-in. in Maple Ave.; average cut, 11 ft. There will be five manholes and four catchbasins with iron covers. Engr., Geo. I. Herrick, Wheaton, Ill.

MEADOTA, ILL.—Bids are asked until Aug. 16 for constructing 4,700 ft. of 12 to 10-in. pipe sewers, 11 manholes, etc. Engrs., Iowa Engineering Co., Clinton, Ia.; Geo. Holland, Cy. Clk.

MILWAUKEE, WIS.—The contract for the building of the outlet to the 30th St. tunnel was let Aug. 2 to G. E. Zimmerman at $24,994. His bid was $13.75 a foot for one section of 1,328 ft. and $16.75 a foot for a second section of 408 ft. The commissioners estimate that the work would cost $30,000. The other bidders were: August Muedling, John O. Jones of Racine, F. H. Nakielski, R. J. Hickey, E. Bowler, Crilley & Son and Charles Forrestal.

ST. PAUL, MINN.—Bids are asked until Aug. 15 for constructing a 15-in. pipe sewer in Waltham Ave. C. N. Bronson, Clk. Bd. Pub. Wks.

DES MOINES, IA.—Bids are asked until Aug. 15 for constructing a 15-in. pipe sewer in East 6th St. G. A. Eberhart, Com. Pub. Wks.

NEW HAMPTON, IA.—Bids are asked until Aug. 25 for building a sewer in this town, requiring about 445 ft. of 8-in. pipe; 660 ft. of 12-in. pipe; 2,820 ft. of 20-in. pipe; 17,000 brick in specials; 11 manhole heads; one 8-in. flusher (De La Hunt), and an outfall cistern. Engrs., Boynton & Warriner, Cedar Rapids, Ia.

GREENVILLE, CAL.—Bids are asked until Aug. 23 for constructing a system and water-works at the Indian School. Supt., E. N. Ament.

SANTA ANA, CAL.—Bids are asked by the board of city trustees until Aug. 22 for furnishing the material and for constructing the proposed system; to cost $65,000. Engr., H. C. Kellogg.

RAT PORTAGE, ONT.—C. W. Belyea, R. E. Dowsett and the mayor have been appointed a committtee to consider the advisability of building a system.

NELSON, B. C.—It is proposed to build about 3,000 ft. of 15 to 8-in. pipe sewers at a cost of about $4,500.

GARBAGE DISPOSAL—STREET CLEANING

MANCHESTER, N. H.—We are informed that the joint council committee on public health has called a public meeting for Aug. 12 to consider the matter of garbage crematories.

WILMINGTON, DEL.—Bids were asked until Aug. 9 for removing the ashes and rubbish for one year, from Sept. 1. H. J. Wiley, Secy. Bd. Dir. St. Dept.

FREDERICK, MD.—Bids were asked until Aug. 10 for removing the garbage, etc., from the streets, alleys, etc., for one year, from Sept. 1. E. A. Gittinger, Cy. Register.

OAKLAND, CAL.—Bids are asked until Aug. 22 for sweeping and cleaning the paved streets of this city. H. W. Thomas, Secy. Dept. Pub. Wks.

STREETS AND ROADS.

PORTLAND, ME.—Bids are asked until Aug. 15 for furnishing and constructing about 3,410 sq. yds. of granite paving, 2,010 lin. ft. of curb, and 42 cu. yds. of rubble. W. B. Allen, Chn. County Comrs.

TRURO, MASS.—Bids are asked until Aug. 18 for constructing about 6,000 ft. of highway. T. C. Mendenhall, Chn. Massachusetts Highway Comn., Boston.

CROMWELL, CONN.—Bids are asked until Aug. 16 for grading and macadamizing a section of road between Cromwell Center and Berlin. C. S. Pease, First Selectman.

GUILFORD, CONN.—Bids are asked until Aug. 19 for grading and graveling a road between Guilford and Branford. W. E. Griswold, First Selectman.

NEW BRITAIN, CONN.—The aldermen have recommended a proposition to the council to lay six-inch macadam from Hartford Ave. to Lawlor St., to cost $2,864. G. C. Dunham, Cy. Engr.

SUFFIELD, CONN.—Bids are asked until Aug. 20 for grading and macadamizing a section of North St. Edmund Halladay, First Selectman.

WATERBURY, CONN.—Bids are asked until Aug. 16 for brick paving on North Main St., according to reports. R. A. Cairns, Cy. Engr.

NAUGATUCK, CONN.—Bids are asked until Aug. 23 for constructing about 1,900 lin. ft. of macadam road, as stated in our advertising columns. S. S. Beardsley, Borough Clk.

ALBANY, N. Y.—Bids are asked until Aug. 15 for grading, curbing and paving in Elm St., from Delaware Ave. to Grand St. Thos J. Lanahan, Clk. St. Dept.

NEW YORK, N. Y.—Bids are asked until Aug. 18 for furnishing 800 cu. yds. of trap rock screenings and 100 cu. yds. of broken stone. Geo. C. Clausen, Chn. Park Comrs., Arsenal, Central Park.

BUFFALO, N. Y.—Bids are asked until Aug. 18 for paving a portion of Babcock St. and Ferry St. R. G. Parsons, Secy. Bd. Pub. Wks.

FULTON, N. Y.—O. C. Breed, Cy. Engr., writes us that a contract for 800 sq. yds. of brick paving has been awarded to A. S. Webb, Syracuse.

ROCHESTER, N. Y.—Bids are asked until Aug. 19 for grading, to cost about $650 and cement walks; estimated cost, $1,836; also for a sewer to cost $3,000. Chas. M. Beattie, Clk.——The council is considering a proposition to pave portions of North Clinton St. with Medina block and asphalt, and has ordered a macadam pavement on Ave. B, at an estimated cost of $8,900.

ROCHESTER, N. Y.—Whitmore, Rauber & Vicinus have submitted the lowest bid for paving in Main St., with Hornellsville brick, at $56,173.

TROY, N. Y.—Bids are asked until Aug. 19 for granite paving and curbing on Broadway. E. Ogden Ross, Secy.

CAMDEN, N. J.—Bids are asked until Aug. 16 for paving in Vine and 10th Sts., with Belgian block, and for constructing certain sewers. Wm. Z. Gibson, Chn. Com.

MERCHANTVILLE, N. J.—The council has appropriated $1,000 for highways.

NEWARK, N. J.—The board of public works has awarded a contract to the Newark Asphalt Paving & Construction Co. for asphalt paving in Elm St., at $25,962; Livingston St., $11,250, and Charlton St., at $9,608; and to John F. Shanley, at $6,936, for granite paving in Pacific St.

NEW BRUNSWICK, N. J.—Bids are asked until Aug. 17 for graveling the South Amboy and South River Road. R. J. Dougherty, County Engr., 113 Albany St., informs us that a contract will be let in September for macadamizing on the South River Road; estimated cost, $2,000.

MEADVILLE, PA.—A contract has been awarded to Peter Schenck, Butler, for paving on Mead Ave. with brick. D. T. McKay, Jr., Cy. Clk.

SCRANTON, PA.—A contract has been awarded to Geo. MacDonald, at $15,000, for constructing brick paving on Providence Road and North Main Ave. J. P. Phillips, Cy. Engr.

PITTSBURG, PA.—Bids are asked until Aug. 27 for improving the Library Road. F. W. Patterson, County Road Engr.; E. N. Randolph, Clk.——Ordinances have been passed by the council for the grading and paving of portions of 26 streets. Chas. Geyer, Mayor.

PITTSBURG, PA.—Bids are asked until Aug. 16 for grading and paving Grant Boulevard, between 5th Ave. and Forbes St. E. M. Bigelow, Dir. Pub. Wks.

READING, PA.—Bids are asked until 3 p. m. Aug. 11 for grading Windsor St.; surety, $100. S. S. Hoff, Cy. Engr.

ROCKVILLE, MD.—Bids are asked until Aug. 16 for constructing about nine miles of macadam roads, according to reports. W. W. Welsh, County Clk.

ALEXANDRIA, VA.—Bids are asked until 12 m., Aug. 11, for 500 lin. ft. of curbing, grading and 1,060 sq. yds. of brick paving on King St. E. C. Dunn, Cy. Engr.; B. B. Smith, Chn. Com.

LOUISVILLE, KY.—Bids will soon be asked for constructing about $100,000 worth of asphalt pavement. Chas. F. Granger, Chn. Bd. Pub. Wks.

CHILLICOTHE, O.—Bids are asked until Aug. 13 for the purchase of $23,675 of street improvement bonds. W. J. Elyth, Cy. Clk.

HAMILTON, O.—Portions of North Second St., South Second St., South Third St. and Ross St., will soon be paved. J. J. M'Maken, Chn. Bd. Control; M. O. Burns, Cy. Clk.

DAYTON, O.—Bids are asked until Aug. 19 for paving the sidewalks on Pulaski St. with stone, cement or asphalt. J. L. Baker, Pres.; J. E. Gimperling, Comptroller.

OBERLIN, O.—Bids are asked until Aug. 16 for 2,000 sq. yds. of brick paving, according to reports. W. B. Gerrish, Cy. Engr.

PIQUA, O.—Bids are asked until Aug. 20 for furnishing the material and for curbing, guttering and constructing sidewalks. H. E. Whitlock, Cy. Engr.; Seth McCullough, Clk.

ORRVILLE, O.—Bids are asked until Aug. 30 for the purchase of $11,000 of 6% street improvement bonds. Ed. Wirth, Clk.

TOLEDO, O.—Bids are asked until Aug. 20 for furnishing material and constructing concrete walks in the court house park. Wm. M. Godfrey, County Audr.

TOLEDO, O.—Bids are asked until Sept. 12 for furnishing the material and for grading, curbing and paving portions of Knower and Rockingham Sts. L. P. Harris, Cy. Clk.

XENIA, O.—The county commissioners have awarded a contract to Harry Tavener, Clifton, for constructing about three miles of road at $1,600 a mile.

VERNON, IND.—Bids are asked until 10 a. m. Aug. 12 for constructing about 36 miles of pike road. Wm. A. Cheever, Chn. County Comrs.; Henry Hinchman, County Audr.

SOUTH BEND, IND.—Bids are asked until Aug. 22 for cement sidewalks on South Michigan St., grading on Diamond Ave. and Johnson St., and brick paving on Carroll St. L. A. Hull, Cy. Clk.——The council has recommended an issue of $110,000 of street bonds.

CHICAGO, ILL.—Bids are asked until Aug. 15 for grading North 48th Ave., between Lake St. and Chicago Ave. L. E. McGann, Comr. Pub. Wks.

URBANA, ILL.—Bids are asked by the board of local improvements until Aug. 17 for constructing about 5,000 sq. yds. of brick paving on concrete, and 3,300 lin. ft. of combination curb and gutter, as stated in our advertising columns.

MANITOWOC, WIS.—Reports state that bids are asked for the purchase of a steam roadroller.

WATERTOWN, WIS.—Henry C. Mayer, Chn. Comm. informs us that bids will soon be asked for brick or macadam paving.

WAUKESHA, WIS.—Wm. Powrie informs us that the council has ordered brick paving in Madison St., Broadway, South St. and Clinton St.; estimated at 30,000 sq. yds. John Dye, Cy. Engr.; address H. E. Blair.

WAUWATOSA, WIS.—Bids are asked until Aug. 15 for furnishing material and grading, graveling, building sidewalks, etc., on Pabst Ave. Reinertsen & Vause, Engrs., 30 Builders' and Traders' Exchange.

ST. PAUL, MINN.—L. W. Rundlett, Cy. Engr., has submitted plans for paving Washington St., from Third to Seventh St., with asphalt; estimated cost, $11,250, according to reports.

DES MOINES, IA.—The council will improve East 30th St. and eight other streets, at a cost of about $8,000.

KANSAS CITY, MO.—A contract will be let Aug. 15 for asphalt paving to cost about $60,000. John Donnelly, Cy. Engr.

ST. JOSEPH, MO.—Bids are asked until Aug. 16 for grading four sections of road. Theo. Steinacker, County Surv.

WEBSTER GROVES, MO.—Bids are asked by the board of aldermen for macadamizing certain streets.

DEADWOOD, S. DAK.—Bids are asked until 1 p. m., Aug. 13, for grading and 400 cu. yds. of filling. J. R. Welch, County Audr.

GRAND FORKS, N. DAK.—It is reported that the question of paving about four miles with cedar block is being considered; also macadamizing and brick paving. Alexander Oldham, Cy. Engr.; F. A. Brown, Cy. Audr.

HELENA, MONT.—Bids are asked until Aug. 15 for furnishing a road machine, for grading, etc. Edward Horsky, Cy. Clk.

FREMONT, NEB.—Bids are asked until Aug. 22 for furnishing the material and for brick paving, curbing, cement walks, etc. W. D. Thomas, Chn. Bd. Pub. Wks.

DALLAS, TEX.—Bids are asked until Aug. 16 for three blocks of brick paving. T. L. Lawhon, Cy. Secy.

DENVER, COLO.—Bids are asked until Aug. 16 for paving Logan Ave., from Eighth Ave. to Colfax. Donald W. Campbell, Ch. Engr. Bd. Pub. Wks.

DURHAM, ONT.—Granolithic sidewalks will be constructed in several streets, at a cost of $5,000, according to reports.

KEMPTVILLE, ONT.—Reports state that about 8,000 lin. ft. of granolithic sidewalks are to be constructed. S. H. Guest, Clk.

PETERBOROUGH, ONT.—Dolan & Sheehey, Belleville, have been awarded a contract for about 5,000 lin. ft. of sidewalk, according to reports. S. R. Armstrong, Clk.

WINDSOR, ONT.—Stephen Lusted, Cy. Clk., informs us that there has been no appropriation for asphalt paving, as stated in our issue of July 21.

NIAGARA FALLS, ONT.—We are informed that the town is about to construct 8,700 lin. ft. of 6, 8 and 10-ft. concrete and brick walks, with stone curbing and crossings. C. H. Mitchell, Cy. Engr.

MANUFACTURING PLANTS.

BURNSIDE, CONN.—We are informed that plans have been completed for extensive alterations and additions to the two-machine paper mill of the Taylor Mfg. Co., at Burnside, and that the general contract has been awarded to Watson H. Bliss & Sons, of Hartford. Butts & Crosby, Archs. and Engrs., 49 Pearl St., Hartford, Conn.

ORANGE PARK, FLA.—J. F. Eldridge, Treas. Duval & Clay Sugar Co., of Orange Park, informs us that this company proposes to improve its property and build a mill on St. John's River, 10 miles south of Jacksonville. The capital stock is $300,000, of which about two-thirds is already subscribed. Mr. Eldridge desires to communicate with manufacturers of sugar mill machinery.

OTTUMWA, IA.—The Janny Mfg. Co., Ottumwa, informs us that bids will be received from Aug. 15 to 20 for the erection of three 2-story and seven 1-story buildings, each 50 × 150 ft., to be used in the manufacture of farm implements. A 100-HP. Corliss engine and a boiler will be needed, also electric power to run the entire plant. Arch., D. C. Mitchell, Ottumwa.

GAS PLANTS.

SPARTANBURG, S. C.—The Spartanburg Gas, Electric Light & St. R. R. Co., recently incorporated, will build a new 50,000-ft. gas holder, extend the mains, etc., of the old plant, as noted under Electric Light and Power. Vice-Pres., Eliot Norton, 100 Broadway, New York.

COVINGTON, KY.—Bids are asked until Aug. 17 for lighting a certain portion of the city with gas, gasoline or electricity. Theo. Von Hoene, Cy. Clk.

SAN JOSE, CAL.—Bids are asked by the Electrical Improvement Co., 45 West Santa Clara St., until Aug. 30 for excavating and laying gas mains.

MISCELLANEOUS CONTRACTS.

BONDS.—Tiffin, O.—Bids are asked until Aug. 20 for the purchase of $25,000 of 6% bonds. J. B. Ehrenfried, Clk.

WHARF.—Fort Morgan, Ala.—Bids are asked until Aug. 23 for constructing a wharf. Address John Simpson, Depot Q. M., Atlanta, Ga.

RETAINING WALL.—Troy, N. Y.—Bids are asked until 11 a. m. Aug. 12 for building 25 lin. ft. of retaining wall. E. Ogden Ross, Secy.

STEEL HULL.—Seattle, Wash.—Bids are asked until Sept. 5 for constructing a steel hull tugboat. Capt. Harry Taylor, U. S. Engr., Burke Bldg.

SMOKELESS POWDER.—Washington, D. C.—Bids are asked until Sept. 3 for furnishing 1,000,000 lbs. of smokeless powder. John D. Long, Secy. Navy.

BONDS.—Newark, N. J.—Bids are asked until Aug. 15 for the purchase of $500,000 of 4% county park bonds. D. H. Johnson, Chn. Finance Com., Bd. Freeholders.

BOILERS.—National Home, Wis.—Bids are asked until Aug. 19 for furnishing the Home with two steam boilers of the horizontal sectional water-tube type. J. E. Armitage, Treas.

LEVEE WORK.—Dayton, O.—Bids are asked until Aug. 19 for widening and strengthening sections A and C of Mad River levee. J. L. Baker, Pres.; J. E. Gimperling, Comptroller.

FIRE ALARM SYSTEM.—Mobile, Ala.—Bids are asked until Sept. 15 for a complete fire alarm system, as stated in our advertising columns. Cary W. Butt, Chn. Com.

STEEL PROJECTILES.—Washington, D. C.—Bids are asked by the navy department until Aug. 23 for furnishing 100,000 six-pound, 100,000 three-pound, and 100,000 one-pound steel projectiles.

DREDGING.—Boston, Mass.—Bids were received Aug. 4 from the Eastern Dredging Co., at $2,245, and the Bay State Dredging Co., at $2,500, for dredging the Fort Point Channel. Wm. Jackson, Cy. Engr.

LEVEE WORK.—Tallulah, La.—Bids are asked until Aug. 15 for raising and enlarging the East Carroll and Madison Parish levees. J. T. McClellan, Pres.; A. T. Lane, Secy. Bd. Comrs., Fifth Louisiana Dist., Tallulah.

CYLINDER PLATES.—Plum Beach Light House, R. I.—Bids are asked until Aug. 16 for furnishing seventh-course cylinder plates, for the Plum Beach light house. Lt.-Col. D. P. Heap, U. S. Engr., Tompkinsville (S. I.).

NAVAL SUPPLIES.—Philadelphia, Pa.—Bids are asked by the navy department, Washington, D. C., until Aug. 23 for furnishing planing machines, lathes, cranes, boilers, engines, machinery, etc., for the League Island navy yard at Philadelphia.

RUBBER SUCTIONS.—Charleston, S. C.—Bids are asked until Sept. 9 for furnishing rubber suctions for the dredges "Charleston" and "Winwah Bay," as stated in our advertising columns. Maj. E. H. Ruffner, U. S. Engr., Charleston.

COAL HANDLING PLANT.—New London, Conn.—Bids are asked by the navy department, Washington, D. C., until Aug. 31 for constructing a plant for the storage and handling of coal. M. T. Endicott, Chief Bureau Yards and Docks, Washington.

DAM ABUTMENTS, ETC.—Brantford, Ont.—Bids are asked until Aug. 20 for constructing stone and concrete piers and abutments, a timber sluiceway dam, excavation, embankments and rip-rap walls. Chas. Whitney, Chn. Bd. Wks.; T. H. Jones, Cy. Engr.

DIKES.—Hudson River, N. Y.—Bids are asked until Sept. 8 for constructing and repairing dikes in the Hudson River, and for furnishing paving and rubble stone, as stated in our advertising columns. Col. J. W. Barlow, U. S. Engr., Army Bldg., New York.

CONSTRUCTION MATERIALS.—Fort Delaware, Del.—Bids are asked until Sept. 5 for furnishing and delivering, at Fort Delaware, cement, broken stone, sand, steel beams, etc., as described in our advertising columns. Lt.-Col. C. W. Raymond, U. S. Engr., Philadelphia, Pa.

MASONRY, SHORE PROTECTION, ETC.—Cleveland, O.—Bids are asked until Aug. 17 for furnishing the material and for constructing a riprap protection at Gordon Park; stone masonry work in Rockefeller Park, and a shore protection at Edgewater Park. C. W. Pratt, Jr., Ch. Engr. Bd. Park Comrs., Hickox Bldg., 185 Euclid Ave.

METAL WORK.—New Haven, Conn.—The following bids were received Aug. 1 for furnishing and constructing the metal work for the New Haven Harbor breakwater light house. Lt.-Col. D. P. Heap, U. S. Engr., Tompkinsville (S. I.), N. Y.:

Russel Wheel & Foundry Co., Detroit, Mich.	$17,330
Allentown Rolling Mills, Allentown, Pa.	17,962
Atlanta Machine Works, Atlanta, Ga.	18,485
John P. McGuire, Cleveland, O.	18,500
Wiemer Machine Works, Lebanon, Pa.	21,000
Tacony Iron & Metal Co., Philadelphia, Pa.	23,874
M. L. Vander Kloot, 1 Madison Ave., New York.	39,586

CONTRACT PRICES.

ASPHALT PAVING.—Spokane, Wash.—The city commissioners received the following bids July 14, 1898, for 21,000 sq. yds. of asphalt paving in Riverside Ave.:

	City Imp. Co.	St. N. W. Asphalt Co.	Alcatraz Co.	Fife & Conlan.
Concrete, cu. yd.	$7.50	$6.30	$6.95	$8.50
Wearing surface, sq. yd.	.75	....	1.03	2.00
Asphalt binder, sq. yd.	.38	....	.27	....
Granite curb, lin. ft.	1.00	....	1.10	1.09
Excavation, cu. yd.	.40	.60	.45	.31
Catch basins, etc., each.	27.50	....	32.50	25.00
Embankment, cu. yd.	.40	.75	.45	....
Maintenance, 10 years.	2,646.00	3,000.00	8,640.00	....
Lump bid.	49,865.00	57,780.00	55,149.90	....

STREET LIGHTING.—Washington, D. C.—The following proposals for street lighting, opened by the district commissioners July 30, have been accepted: Washington Gas Light Co., to furnish and maintain 4,000 or more gas lamps east of Rock Creek, $20 per lamp a year; also by same company, to furnish and maintain 400 or more gas lamps west of Rock Creek, $20 a year. Potomac Electric Power Co., to furnish and maintain 50 or more incandescent lamps, $20; 106 in Eckington, $20; 132 or more arc lamps east of Rock Creek, $91.25 a light a year. U. S. Electric Light Co., to furnish and maintain 24 or more arc lamps west of Rock Creek, 24 cts. a light a night, and 442 arc lamps east of Rock Creek, 25 cts. a lamp a night.

SEWERS.—Kewanee, Ill.—We are informed that the following bids were received July 25 for constructing sewers, as advertised in Engineering News; Jno. C. Quade, Cy. Engr.:

Bids Received at Kewanee, Ill., July 25, 1898, for Construction of Sewers.

Quantities.		Peter Simon, Quincy, Ill.	Neich, Patterson & Shiffler, Springfield, Ill.	Knowles, & Price, Jacksonville, Ill.	P. C. Murphy, Rock Island, Ill.	Greenville (O.) Const'n Co.	H. P. Hallet, Aurora, Ill.	J. H. Roche, Chicago, Ill.	Egan & Munn, Nebraska City, Neb.
Pipe sewer and Y's laid complete.	18-in.	4,800 lin. ft.	$0.33	$0.45	$0.39	$0.31	$0.50	$0.39	$0.32
	15-in.	3,567 " "	.24	.33	.25	.25	.56	.26	.23
	12-in.	6,786 " "	.20	.22	.18½	.17	.25	.20	.18
	10-in.	14,404 " "	.15	.19	.15	.15	.37	.18	.14
	8-in.	11,410 " "	.13	.14	.11	.10	.12	.13	.10
6-in. house connections		17,540 " "	.11	.12	.08	.08	.09	.09	.09
6-in. drain tile		5,000 " "	.06	.05	....	.10	....	.10	.04
Trenching and backfilling.	Under 6 ft.	10,301 ft.	.14	.11	.12	.13½	.12	.15	.12	.10½
	6 ft., under 8 ft.	14,720 "	.19	.18	.13	.18½	.17	.15	.17	.14
	8 " " 10 "	17,241 "	.27	.23	.15	.32½	.23	.15	.30	.20
	10 " " 12 "	10,673 "	.40	.33	.19	.42½	.33	.15	.45	.27
	12 " " 14 "	4,342 "	.53	.38	.21	.54½	.43	.15	.65	.36
	14 " " 16 "	669 "	.65	.43	.24	.80	.75	.35	1.05	.44
	16 " " 18 "	221 "	.90	.53	.29	1.08	.87	.35	1.45	.50
	18 " " 20 "	160 "	1.35	.63	.39	1.29	1.14	.35	1.75	.55
	20 " " 22 "	180 "	1.40	.78	.54	1.66	1.50	.35	1.95	.62
Manholes, 10 ft.		105 each	37.00	23.00	25.00	28.00	30.00	30.00	20.00	28.00
For each additional ft.			2.00	1.70	1.00	2.00	1.70	.10	1.00	2.50
Lampholes, 10 ft.		11 each	1.50	10.00	19.50	6.25	8.00	6.00	7.50	5.00
For each additional ft.			.10	.50	.50 + .25	.10	.20	.10	.15	.15
Temporary lampholes		100 each	.10	2.00	.50	1.50	.30	.35	.20	.25
Flushtanks		11 "	50.00	50.00	25.00	42.00	40.00	40.00	35.00	45.00
Double flushtanks		1	65.00	80.00	50.00	60.00	70.00	100.00	50.00	100.00
Combined flushtank and manhole		2 each	120.00	100.00	150.00	57.00	80.00	100.00	70.00	70.00
Brick masonry		11.5 cu. yds.	11.50	10.00	9.00	7.00	8.00	8.00	8.00	7.50
Embankment		2,000 " "	.25	.20	.25	.22	.20	.25	.25	.25
Cast-iron pipe laid		14.5 tons	...	25.00	30.00	22.00	30.00	30.00	25.00	27.50
Total			$30,927	$27,669	$25,182	$32,271	$27,843	$28,411	$32,333	$24,894

WATER PIPE AND LAYING.—New York, N. Y.—The following bids were received July 28, by William Dalton, Comr. Water Supply, 150 Nassau St., for furnishing and laying cast-iron water pipe in Fordham Road, across the Harlem River Ship Canal, and in 209th St. and Isham St.; the bids for this work, which were rejected, were given in our issue of April 28; Peter Fruh's bid was the lowest at $53,000:

Bids Received at New York, N. Y., July 28, 1898, for Furnishing and Laying Cast-Iron Water Pipe.

Quantities.		John Conwell, Jr.	P. K. Costello.	Peter Fruh.	T. F. McQuade.	Merritt & Chapman D. Co.	Holmes & Cogan.	Frawley & Rooney.	Thielman & Smith.	Wm. H. Masterson.
Rock excavation	500 cu. yds.	$0.35	$1.00	$0.25	$2.50	$1.00	$1.50	$0.25	$0.40	$2.00
Earth excavation	20,000 " "	.35	.30	.52	.50	.30	.33	.45	.40	.50
Filling	5,000 " "	.01	.10	.01	.50	.25	.15	.01	.10	.10
Riprap	250 " "	1.50	1.00	1.50	3.00	1.00	1.00	1.00	1.00	1.50
36-in. pipe	500 lin. ft.	6.00	5.50	4.60	4.85	4.00	4.75	5.00	4.50	5.17
20-in. "	2,000 " "	2.70	2.50	2.50	2.60	2.40	2.50	2.50	2.50	2.65
12-in. "	200 " "	1.65	2.00	1.25	1.18	1.50	1.20	1.25	1.50	1.30
6-in. "	150 " "	.80	1.00	.60	.50	.75	.60	1.00	.75	.75
36-in. stop cock	1	750.00	520.00	525.00	406.00	413.00	550.00	500.00	450.00	600.00
20-in. "	5 each	150.00	115.00	140.00	137.00	100.00	150.00	125.00	150.00	125.00
12-in. "	4 "	75.00	28.00	50.00	48.00	25.00	50.00	50.00	30.00	50.00
6-in. "	6 "	35.00	20.00	30.00	30.00	10.00	30.00	25.00	15.00	35.00
Double nozzle hydrants	8 "	45.00	23.00	60.00	23.00	23.75	45.00	48.00	50.00	40.00
Masonry	75 cu. yds.	8.00	9.00	15.00	12.00	10.00	10.00	9.00	10.00	10.00
36-in. pipe	1,200 lin. ft.	40.00	32.00	26.00	34.00	29.84	31.00	32.60	33.00	26.00

SEWER BRICK, ETC.—Washington, D. C.—The following contracts were let by the district commissioners July 19, 1898, for furnishing sewer brick, etc.: The Washington Brick & Terra Cotta Co., furnishing sewer brick in the city, $7.93 a 1,000; in the county west of Rock Creek, not over one mile from Georgetown, $9.23 a 1,000; at District property yards, $7.40 a 1,000; at bidders' works, $7 a 1,000; hauling sewer brick beyond the limits mentioned, 49 cts. a 1,000 for each additional mile or fraction thereof. The Washington Brick Machine Co., furnishing sewer brick in Georgetown, $8.23 a 1,000; in the county east of the Eastern Branch, $8.93 a 1,000; in the county between the Eastern Branch and Rock Creek, not over 1½ miles from the city limits, $8.23 a 1,000. Hauling beyond the limits mentioned, 47 cts. a 1,000 for each additional mile or fraction thereof.

BRICK PAVING.—Lima, O.—R. H. Gamble, Cy. Engr., informs us that the following bids were received July 22, for brick paving in South Main St., as advertised in Engineering News; the award cannot be made until Aug. 8, date of the sale of bonds, but it will likely go to Kerlin Bros., Toledo, O., on Metropolitan (Canton, O.) 4-in. block with Portland cement filler and 6 × 30-in. Berea curbing; total bid, $47,500:

Bids Received at Lima, O., July 22, 1898, for Brick Paving.

Quantities.			Henry Gantz.	Barr & O'Brien.	T. J. Mulligan.	Kerlin Bros.	D. R. McArthur.	Jac. Spyker.
Excavation		16,000 cu. yds.	$0.22	$0.28	$0.20	$0.25	$0.25	$0.25
Concrete		30,000 sq. yds.	.46	.50	.47	.42	.50	.49
6 × 20-in. straight curb		11,000 lin. ft.	.46	.60	.54	.60	.53	.50
6 × 20-in. circular "		458 " "	.70	.75	.65	.80	1.24	.65
6 × 30-in. straight "		11,000 " "	.65	.75	.88	.60	.85	.73
6 × 30-in. circular "		458 " "	1.00	.95	...	.80	1.25	.90
Catchbasins		22 each	15.00	25.00	15.00	15.00	15.00	14.00
Extra haul			.02	.05	.03	.05	.05	.05
Brick or block	Trimble block	30,000 sq. yds.	.76	.87	.76	.71	.70	...
	S. F. B., 5-in.		.97	...	...	...	.87	...
	Massillon, 5-in.		.97	...	...	.87	...	.91
	Canton, 5-in.		.95	...	...	...	.92	...
	Canton, 4-in.		.76	.90	...	...	...	...
	Nelsonville		.75	.89	.78	.73	.72	.75
	Middleport		.94	.87	.75	...	...	...
	Union		...	.87	.76	...	.72	.73
	Metropolitan block, 5-in.		...	1.06	...	.83	...	...
	Massillon repressed		...	1.05	.94	...	...	...
	Metropolitan block, 4-in.		...	...	...	.71	...	...
	Malvern, 5-in.		...	...	...	.87	...	...
	Harris.		...	...	...	.71	...	.68
Filler.	Bituminous grout	30,000 sq. yds.	.16	.14	.15	.16	.16	.14
	Murphy grout		.15	.15	.15	.15	.16	.16
	Portland cement		.09	.09	.10	.08	.14	.12
	Coal tar		.10	.14	.12	.13	.16	.16
	Coal tar, special		.14	...	...	...	...	...
	Sand filler		.04	.03	.01	.03	.05	.03
	Canton Met. block repressed		...	...	...	...	.75	...

PARK LIGHTING.—Washington, D. C.—The Potomac Electric Lighting Co. has been awarded the contract for lighting Lafayette, Franklin, Judiciary and Lincoln Parks at 24 cts. a light a night. Bids recently opened for electric lighting of the grounds south of the Executive Mansion, the grounds of the Executive Mansion, and the Washington Monument grounds, were as follows: U. S. Electric Light Co., 19 cts. a light a night for grounds south of the Executive Mansion, 24 cts. for the Executive Mansion and Monument grounds. The bids of the Potomac Electric Power Co. were 20 cts. and 25 cts., respectively.

DREDGING.—Washington, D. C—The following bids were received by the bureau of yards and docks July 16, 1898, for dredging and for building a quay dock at Dry Dock No. 1: Dredging—Morris & Cumings Dredging Co., New York, 23½ cts. a cu. yd.; R. G. & J. S. Packard, 130 Pearl St., New York, 18 cts. a cu. yd.; Theron L. Smith, Smithtown, N. Y., 29½ cts.; The International Constructing Co., Syracuse, N. Y., 24¾ cts. Quay wall, coal dock—Stacy B. Opdyke, Jr., 1232 Belmont Ave., Philadelphia, $89.50 a lin. ft.; P. Sanford Ross, Jersey City, $116.10; Samuel W. Frescolin, Reading, Pa., $119; J. & F. Kelly, 62 Beard St., Brooklyn, $103.73; Frank W. McNeal, 80 Reade St., New York, $132; The Houston Construction Co., Broad and Chestnut Sts., Philadelphia, $134; Quay wall between Dry Dock No. 1 and Main St.—P. Sanford Ross, Jersey City, $105.33; J. & F. Kelly, Brooklyn, $94.67; Houston Constructing Co., Philadelphia, $126; Frank W. McNeal, New York, $127; Stacy B. Opdyke, Jr., Philadelphia, $98.

PAVING.—Sioux City, Ia.—The following bids were received July 13, 1898, for asphalt and brick paving in certain streets: Sixth St.—Barber Asphalt Paving Co., $2.24 a sq. yd.; E. J. Hanlon, $2.36 a sq. yd. Water and Fifth Sts., three blocks—J. W. Smith, sand filler, $1.69; Portland cement, $1.77; paving cement, $1.75; Murphy grouting, $1.79. E. J. Hanlon, sand, $1.71; Portland, $1.76; paving, $1.95; Murphy, $2. M. L. Flinn, sand, $1.80; Portland, $1.84; paving, $1.93; Murphy, $2. Smith, Moss & Brown, Chicago, sand, $1.82; Portland, $1.85; paving, $1.94; Murphy, $2. Hansen Bros., sand, $1.86; Portland, $1.91½; paving, $1.96; Murphy, $2. Third St., brick—Hansen Bros., sand, $1.70⅝; Portland, $1.87⅛; paving, $1.72⅛; Murphy, $1.97⅛. E. J. Hanlon, sand, $1.71; Portland, $1.76; paving, $1.85; Murphy, $2. M. L. Flinn, sand, $1.80; Portland, $1.84; paving, $1.93; Murphy, $2. Smith, Moss & Brown, sand, $1.82; Portland, $1.85; paving, $1.94; Murphy, $2. Certain alleys—J. W. Smith, $1.44½; E. J. Hanlon, $158; Hansen Bros., $1.64; M. L. Flinn, $1.67; Smith, Moss & Brown, $1.69. Each bidder made propositions for resetting old curb and laying new curbs on the streets on which he bid. Stephen Coleman offered to lay new curbing at 60 cts. a lin. ft. and to reset Third St. and Sixth St. curbing at 8 cts. a ft. and Water St. and Fifth St. curbing at 8½ cts. a ft.

WATER PIPE, ETC.—Renovo, Pa.—The following contracts have been let for furnishing 8-in. cast-iron water pipe, hydrants, etc., as advertised in Engineering News; Secy. Comrs., Wm. J. Straley: Pipe—R. D. Wood & Co., Philadelphia, Pa., $18.90 a ton; hydrants, etc.—J. O. Frost's Sons Mfg. Co., Towanda, Pa., 20 double nozzle fire hydrants, $20 each; 3 fire hydrants, with crane attachment for supplying water for sprinkling carts, $30 each; 7 8-in. gates, $14.50; 3 6-in. gates, $9.25; 3 air valves, $5; 3 valve boxes at $2. Laying pipe—James Carr, Bedford, Pa., 14½ cts. a lin. ft. Other bids for laying pipe, digging trench, back filling, setting of valves, valve boxes, gates, fire hydrants, and air valves, were as follows: J. H. Mussina, 16 cts. a ft.; D. M. May, 18 cts. a ft.; M. Fitzgerald, 17 cts. a ft.; Thos. Delaney, 18 cts.; E. H. Post, 21 cts.; H. Malone, 17 cts.; E. F. Kitzer, 18½ cts. The other bids for furnishing 8-in. pipe were as follows: Warren Foundry & Machine Co., $19.40 a ton; Chas. Millar & Son, $20.27; National Foundry & Pipe Works, $19.39; Buffalo Cast-Iron Pipe Co., $19.90; Chattanooga Foundry & Pipe Co., $18.93; R. D. Wood & Co., $18.90; Jackson & Woodin Mfg. Co., $19.25; Donaldson Iron Co., $18.94; E. K. Post, $19.54.

SUPPLIES.—Washington, D. C.—The following contracts for furnishing terra cotta sewer pipe for the fiscal year 1899 have been awarded: 6-in., 1,000 ft., 5 cts., Angus Lamond; 2,000 ft., 4¾ cts., Thomas Somerville & Sons.; 1,000 ft., 5 cts., Potomac Terra Cotta Co. 10-in., 10,000 ft., 11 cts., Potomac Terra Cotta Co. 12-in., 13,000 ft., Potomac Terra Cotta Co. 15-in., 4,600 ft., 19 cts., Thos. Somerville & Sons; 2,400 ft., 20 cts., Potomac Terra Cotta Co. 18-in., 2,000 ft., 27 cts., Thos. Somerville & Sons; 2,000 ft., 28 cts., Potomac Terra Cotta Co. 24-in., 3,000 ft., 53 cts., Thomas Somerville & Sons; 2,000 ft., 55 cts., Potomac Terra Cotta Co. The following bids were opened by the district commissioners July 23. Laying cement sidewalks: Crawford Paving Co., $1.04 a sq. yd., class A, $1.32 class B; F. M. Kemp & Sons, 98 cts. a yd., class A, $1.18 class B; Colburn Bros., 95½ cts. a yd., class A, $1.18¾ class B. Lamp posts: C. Rittenhouse, $8.75 each; M. J. Drummond & Co., $5.40; Midvale Foundry Co., Allentown, Pa., $4.46; Stewart R. Carr & Co., $4.90; James J. Lacey & Co., $5.92; Bethlehem Foundry & Machine Co., $5.19.

BRICK PAVING.—**Champaign, Ill.**—Ralph P. Brower, Cy. Engr., writes us that the following bids were received July 14 for certain brick paving, as advertised in Engineering News; contract was awarded to G. Maffioli for Veedersburg (Ind.) and Galesburg (Ill.) brick, and gravel concrete; the board reserving the right to substitute broken stone concrete at any time:

Bids Received at Champaign, Ill., July 14, 1898, for Brick Paving.

Quantities.		J. A. Foster & Co., Attica, Ind.	J. H. Palmer, Danville, Ill.	Smith, Moss & Brown, Chicago, Ill.	Patterson & Streffen, Springfield, Ill.	G. Maffioli, Rockford, Ill.	Crews, Lough & Allison, Arcola, Ill.	J. W. Stipes, Champaign, Ill.	A. Barr, Jr., Urbana, Ill.
Green St.:									
Excavation	10,500 cu. yds.	$0.20	$0.17	$0.10	$0.22	$0.14	$0.22	...	...
Limestone curbing	.....	...	.37	.35	...	.38	...	...	...
Concrete curb and gutter	9,650 lin. ft.	.50	.60	.49	.40	.39	.45	...	...
Brick masonry	40 cu. yds.	6.00	...	12.00	8.00	10.00	1.00	...	...
Brick pavement.†	Clinton (Ind.) brick	1.26	1.39	1.26	1.20	1.08	1.30	...	...
	Veedersburg brick	1.28	1.43	1.30	1.29	1.19	1.34	...	...
	Galesburg (Ill.) brick	...	...	1.33	1.28	1.19	...	...	...
	Urbana brick	...	...	...	1.09	...	...	...	...
Brick pavement.‡	Clinton (Ind.) brick	1.43	1.39	1.34	1.34	1.23	...	...	...
	Veedersburg brick	1.45	1.43	1.38	1.42	1.34	...	...	...
	Galesburg (Ill.) brick	...	...	1.41	1.41	1.34	...	...	...
	Urbana brick	...	...	...	1.23	...	...	...	...
	Springfield brick	...	...	...	1.21	...	...	...	...
Walnut St.:									
Excavation	800 cu. yds.	$0.20	$0.17	$0.20	$0.22	$0.14	$0.22	$0.30	...
Limestone curbing	3,194 lin. ft.	.38	.37	.35	.39	.38	.43	.33	...
Resetting curb	.....	.10	.20	.15	.10	.05	...	.08	...
Brick pavement.†	Clinton (Ind.) brick	1.26	...	1.29	1.20	1.08	1.30	...	...
	Veedersburg brick	1.28	...	1.33	1.29	...	1.34	...	...
	Galesburg (Ill.) brick	...	...	1.36	1.28	1.19	...	...	...
	Urbana brick	...	...	...	1.09	...	...	1.14	...
Brick pavement.‡	Clinton (Ind.) brick	1.43	1.39	1.37	1.34	1.23	...	...	...
	Veedersburg brick	1.45	1.43	1.41	1.42	...	...	...	...
	Galesburg (Ill.) brick	...	...	1.44	1.41	1.34	...	...	...
	Urbana brick	...	...	...	1.23	...	...	1.34	...
	Springfield brick	...	...	...	1.21	...	...	...	...
Taylor St.:									
Excavation	570 cu. yds.	$0.20	$0.17	$0.20	$0.22	$0.14	$0.22	$0.30	$0.16
Limestone curbing	480 lin. ft.	.38	.37	.42	.39	.38	.43	.33	.37
Resetting curb	.....	.10	.20	.15	.10	.05	...	.08	.05
Brick pavement.†	Clinton (Ind.) brick	1.26	...	1.40	1.20	1.08	1.31	...	...
	Veedersburg brick	1.28	...	1.44	1.29	1.19	1.35	...	...
	Galesburg (Ill.) brick	...	...	1.47	1.28	1.19	...	...	...
	Urbana brick	...	...	...	1.09	...	...	1.14	1.15
Brick pavement.‡	Clinton (Ind.) brick	1.43	1.39	1.34	1.34	1.23	...	...	...
	Veedersburg brick	1.45	1.43	1.38	1.42	1.34	...	...	...
	Galesburg (Ill.) brick	...	...	1.47	1.41	1.34	...	...	...
	Urbana brick	...	...	...	1.23	...	...	1.34	1.35
	Springfield brick	...	...	...	1.21	...	...	...	...

†On 6-in. gravel concrete foundation. ‡On 6-in. broken stone concrete foundation.

DREDGING.—**Lorain, O.**—G. A. Resek, Cy. Clk., informs us that the following bids were received Aug. 2, 1898, for dredging, as advertised in Engineering News:

Bidder.	Dredging, a cu. yd. Mud.	Shale.	Logging, per hr.
John Stang, Lorain, O.	$0.07½	$0.35	$10.00
Breymann Bros., Toledo, O.	.10	.30	.....
L. P. & J. A. Smith, Cleveland.	.10	.50	10.00
Carkin, Stickney & Cram, Detroit	.13	.42	10.00

MACADAM ROAD.—**Plymouth, Mass.**—A. B. Fletcher, Secy. Massachusetts State Highway Comn., informs us that the following contract was let Aug. 4, 1898, to Edward D. Bell, Roxbury, Mass., for building a macadam road in Plymouth: Excavation, 750 cu. yds., at 25 cts. a cu. yd.; gravel, 500 cu. yds. at 40 cts.; shaping, 11,666 cu. yds., 2½ cts.; broken stone in place, 2,800 tons, $1.29 a ton; finishing between limits—labor, 20 cts. an hour; double teams, 55 cts., and single teams, 30 cts.; cobblestone gutters, 100 sq. yds., 77 cts.; total, $4,339.

COMBINED GUTTER AND CURB.—**Minneapolis, Minn.**—The council received the following bids July 29, 1898, for furnishing an artificial combined curb and gutter, 10 ins., as may be required during this season: Stillwater Stone Sidewalk Co., 41 cts. per lin. ft.; Portland Stone Co., 34½ cts.; Standard Stone Sidewalk Co., 36½ cts.; Flour City Paving Co., 45 cts.; Star Paving Co., 39 cts., all to be made of coarse sand and cement.

PIER.—**Napatree Point, Conn.**—Capt. Thos. A. Scott, New London, Conn., was awarded the following contract Aug. 5, 1898, for building a pier at Napatree Point for U. S. government: Timber, $34 a 1,000 ft., B. M., in place; $35 for lumber in place, $46 for piling in place; 4 cts. a lb. for miscellaneous iron; 5 cts. a lb. for c.-i. cleats. The pier will be 400 ft. in length, about 300 ft. trestle work over shallow water, and the last 100 ft. heavier work.

SEWERAGE SYSTEM.—**Flemington, N. J.**—We are informed that the following bids were received July 30 for constructing a sewerage system, sewage disposal beds, etc., as advertised in Engineering News; A. Costa was awarded contract; W. H. Chapman, Engr.-in-Charge:

Bids Received at Flemington, N. J., July 30, 1898, for Constructing a Sewerage System.

Quantities.		T. M. Lesher & Son, Easton, Pa.	Edw. H. Post, Wilkes Barre, Pa.	Dwyer & Kelly, NwY'rk, N. Y.	F. Kohlmeyer & Co., NwY'rk, N. Y.	B. F. Sweeten & Son, Camden, N. J.	A. Costa, Orange, N. J.	J. E. Hilpot, Bound Brook, N. J.
Sewers	8-in. pipe	16,155 lin. ft.	$0.75	$1.12	$1.80	$0.995	$1.04	$0.60	$0.70
	10-in. "	5,920 " "	.80	1.27	1.88	1.07	1.21	.70	.80
	12-in. "	2,105 " "	1.03	1.57	2.79	1.19	1.27	1.00	.90
	15-in. "	3,080 " "	.75	.85	1.50	1.07	.69	.70	.65
	8-in. iron pipe	100 " "	1.15	1.99	.70	1.00	1.46	1.00	.62
	10-in. " "	60 " "	1.31	2.44	1.00	1.25	1.85	1.02	.80
	12-in. " "	24 " "	1.49	3.12	1.00	1.50	2.10	1.50	.93
12-in. iron pipe on piers with embankment.		76 " "	1.35	3.20	1.60	4.25	1.36	3.00	1.38
15-in. iron pipe on piers with boxing		264 " "	2.95	5.60	3.00	5.50	3.14	5.00	2.85
15-in. iron pipe sewers		536 " "	1.50	2.78	1.50	3.25	1.81	1.80	1.45
18-in. iron pipe (two carloads)		24 " "	1.75	3.58	1.50	3.00	1.53	2.00	1.50
Y-branches	8-in.	1,170 " "	.34	.38	.30	.35	.28	.30	.35
	10-in.	435 " "	.34	.48	.45	.40	.39	.50	.45
	12-in.	140 " "	.34	.56	.55	.45	.52	.65	.55
	15-in.	95 " "	.96	.80	.80	.45	.75	1.00	.65
Drop connections for house drains		100 " "	3.00	2.80	2.50	3.00	.58	.25	3.00
Underdrains	3-in.	100 " "	.10	.20	.06	.20	.04	.10	.50
	4-in.	200 " "	.12	.21	.08	.25	.05	.15	.55
	6-in.	100 " "	.12	.25	.12	.30	.07	.20	.60
Manholes		41 each	45.00	55.00	50.00	45.00	29.00	25.00	42.00
Drop connections at manholes		6 "	7.00	10.00	2.00	15.00	8.00	10.00	3.00
Lampholes		39 "	3.50	6.82	4.50	20.00	3.46	10.00	6.00
Flushtanks		17 "	65.00	75.00	75.00	50.00	47.00	50.00	64.00
Concrete		30 cu. yds.	5.00	7.00	6.50	10.00	6.50	4.50	6.00
Sheeting and shoring		10,000 ft. B.M.	18.00	20.00	25.00	40.00	16.00	1.00	15.00
Plank foundations		1,000 "	18.00	40.00	25.00	40.00	16.00	1.00	15.00
Excavation and back fill		100 cu. yds.	.50	1.50	.50	1.00	.20	.50	.50
Disposal field			5,379	6,193	13,405	6,000	3,900	5,875	4,801
Total			$33,234	$47,097	$71,037	$43,154	$38,196	$39,102	$31,405

WATER PIPE.—**Montgomery, Ala.**—It is reported that Guild & Co., Chattanooga, Tenn., were awarded the following contract, July 16, for furnishing about 10 miles of cast-iron water pipe, as advertised in Engineering News: 8-in. pipe, 10,320 ft., 50½ cts. a ft.; 6-in. pipe, 35,840 ft., 39½ cts. a ft.; and 4-in. pipe, 28 cts. a ft. R. H. Somerville, Cy. Treas.; Engr., Nesbit Wingfield, Atlanta, Ga.

ASPHALT PAVING.—**Baltimore, Md.**—The following bids were received by L. F. Lewis, Cy. Comr., July 19, for furnishing the material and for asphalt paving in Fulton Ave., from Presstman St. to Pennsylvania Ave.; contract awarded Southern Asphalt Paving Co.:

Bids Received at Baltimore, Md., July 19, 1898, for Asphalt Paving.

Quantities.		Southern Asphalt Pvg. Co.*	J. S. Filbert, Baltimore.	Barber Asp. Pvg. Co., N. Y.	Robertson & Anderson.
Block asphalt paving, including all necessary grading, a 6-in. concrete base, 2 ins. of sand and paving blocks	12,900 sq. yds.	.....	.....	.....	$2.48
Sheet asphalt paving, including all necessary grading, 6-in. concrete base, 1½-in. binder and 1½-in. wearing surface	12,660 " "	$1.54	$2.27	$2.55	...
New 6-in. curb, including circles, set in place	4,810 lin. ft.	.95	1.21	1.25	1.03
Old 6-in. curb and circles redressed and reset	2,715 " "	.13	.31	.33	.28
New 5-in. curb, including circles set in place	2,270 " "	.95	1.19	1.21	.93
Old 5-in. curb, including circles redressed and reset	100 " "	.14	.31	.33	.25
Old 5 and 6-in. curb redressed in place	1,400 " "	.13	.25	.25	.16
Resetting old curb in cross streets	200 " "	.12	.21	.20	.15
4½-in. headers for sheet asphalt paving, set	545 " "	.65	.65	.60	...
4½-in. headers, for asphalt block paving, set	545 " "	...	...	...	.65
3-ft. open stone gutters, set	880 sq. ft.	1.13½	1.28½	1.25	1.20
Brick gutters and brick paving for asphalt blocks	1,740 " "	...	...	...	.27
Brick gutters and brick paving for sheet asphalt	3,870 " "	.27	.27	.32	...
Cobble paving	5,000 " "	.06	.09	.10	.06½
Cobble repaving	2,000 " "	.03½	.07	.04	.03¾
Hauling old cobblestones (unused) a mile	630 cu. yds.	.35	.31	.30	.60
Hauling old curb, unused, a mile	1,000 lin. ft.	.07	.10	.10	.08
Hauling old flagstones, unused, a mile	2,460 sq. ft.	.04	.01½	.03	.04
Total		$29,950	$41,975	$45,969	$44,409

STREET SPRINKLING.—**Orange, Cal.**—The town trustees received the following bids for sprinkling the streets: J. E. Mailes, 22 cts. a tank; Peter Schmetgen, 21 cts. a tank; G. A. Crowell, 27½ cts. a tank, if water is taken from pipe of Orange City Water Co. at plaza, and 25½ cts. if taken from the Santiago Land & Water Co.'s pipe at Cambridge St., and 20 cts. if taken from the latter company and they deliver it at the plaza.

INDUSTRIAL NOTES.

CHAS. F. BURNS & CO., 44 North Water St., Rochester, N. Y., electrical engineers and manufacturers of electrical supplies, have dissolved partnership by mutual consent.

MR. L. WILSON, 53 Dearborn St., Chicago, is sinking an artesion well for the Illinois Central R. R. at Gilman, Ill. It has reached a depth of 500 ft., and will be carried down to about 1,800 or 2,000 ft.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has a contract to furnish and erect fireproof buildings, consisting of a steel framework covered with corrugated iron, for the refining plant of the Guggenheim Smelting Co., Perth Amboy, N. J.

THE WESTINGHOUSE MACHINE CO. and the Westinghouse Electric & Mfg. Co., Pittsburg, invited a number of prominent engineers to visit their works at East Pittsburg, July 30, to inspect some new engines to be shipped to England, and also to view their extensive workshops.

THE P. H. & F. M. ROOTS CO., Connersville, Ind., announce that its rotary force pump has been endorsed by the New England Factory Mutual Fire Insurance Association. The record made by this pump for durability and good work is, the company claims, fast dispelling the prejudice against the rotary form of pump.

THE WESTINGHOUSE MACHINE CO., Pittsburg, reports that it has through its New York office the initial order from Cuba since the beginning of hostilities with this country, it being for a 100-HP. Westinghouse engine and dynamo, together with boiler, boiler pump, piping, etc., for a complete steam plant to be installed in Santiago.

THE CONTINENTAL FILTER CO., 44 Wall St., New York, has issued a circular letter stating that it is now prepared to build gravity filters, with sedimentation tanks; also that it proposes to use a coagulant produced "from a certain use of the metal of aluminum." It also states that it has secured as General Manager, Mr. Wm. Deutsch, formerly Manager of the New York Filter Co.

THE E. P. ALLIS CO., Milwaukee, Wis., has a contract from the Franklin Mining Co., Houghton, Mich., for the machinery of its new mill, including a 15,000,000-gallon steam pump and five large stamp mills, with stamps 20 × 24 ins., resting on solid foundations weighing 72 tons each, according to report. The mill will also contain a 1,000-HP. surface condenser.

THE SPRINGFIELD BOILER & MFG. CO., Springfield, Ill., is reported to have a contract from the U. S. Government for a dredging boat, 192 ft. long and 70 ft. wide, to be used on the Mississippi River. It will be equipped with powerful machinery, having side wheels like a steamboat, making it, it is said, the only self-propelling suction dredge in existence and will cost about $100,000 complete.

THE BELLEFONTAINE BRIDGE & IRON CO., Bellefontaine, O., advises us that it is quite busy at present and has the following contracts, among others, on hand: Signal tower at the crossing of the Detroit & Lima Northern Ry. and the Cleveland, Cincinnati, Chicago & St. Louis Ry., Bellefontaine, O.; high truss bridge, 170 × 16 ft., with one 6-ft. sidewalk, Pauiding, O.; high truss bridge, 206 × 18 ft., Vermillion county, Ind.; structural iron for school building, Waterbury, Vt.; 150 × 16-ft. bridge, Henry county, Ill.; high truss bridge, 100 × 18 ft., Johnson county, Ind.; high truss bridge, 125 × 16 ft., Miami county, Ohio; structural iron for 3-story business block, Tiffin, Ohio; high truss bridge, 150 × 14 ft., on tubular piers, Sullivan county, Ind., and also contracts for 90 other bridges and buildings throughout the Central states.

THE HAYS CONSTRUCTION CO., Troy, O., has closed contracts with the Commissioners of Miami County, Ohio, for masonry work of nine bridges to replace bridges washed out by high water. The company has also closed contracts with the Cleveland, Cincinnati, Chicago & St. Louis Ry. Co. for the erection of masonry work approximating 1,000 yds., for two bridges west of Troy, O., on the line of the Peoria & Eastern Ry.

THE FUEL ECONOMIZER CO., Matteawan, N. Y., is busy at present and reports its business prospects as most encouraging. Among recent sales are the following: Milwaukee Electric R. R., Milwaukee, Wis., 2,000 HP.; Worcester Bleach & Dye Works, Worcester, Mass., 350 HP.; Merchants' Cotton Co., St. Henri, Que., 600 HP.; Excelsior Mills, 300 HP.; Lehigh Valley Coal Co., Wilkesbarre, Pa., 2,000 HP. (two orders); Western Cold Storage Co., Chicago, Ill., 300 HP.; Cheney Bros., South Manchester, Conn., 2,000 HP.; Blackstone Mills, Blackstone, Mass., 500 HP.; La Belle Mill Water & Power Co., Goldfield, Colo., 1,000 HP.; Dominion Cotton Mills Co., Magog, Que., 1,000 HP. (twelfth order); Frick Co., Waynesboro, Pa., 150 HP.; D. M. Bare & Co., Roaring Springs, Pa., 600 HP., and Rome Brass & Copper Co., Rome, N. Y., 350 HP.

THE MICHIGAN BRASS & IRON WORKS, Detroit, Mich., informs us that it has never been busier than now, every department being crowded to its fullest capacity, with more men on the pay rolls than ever before. Contracts lately taken include the following: One hundred 5-in. Michigan compression fire hydrants for the city of Detroit, this lot being in addition to those noted some time ago; 100 of the same type of hydrant for the village of Delray, a suburb of Detroit; 10-in., 12-in. and 20-in. St. Louis pattern gate valves, for the city of St. Louis; over a carload of 10-in. to 26-in. valves inclusive, for the city of Spokane, Wash.; a carload of hydrants for the city of Grand Rapids, Mich.; valves and hydrants for the cities of Jackson and Saginaw, Mich.; hydrants for the city of Allegheny, Pa.; 30-in. sluice gates for the Great Plains (Colo.) Water Storage Co., etc.

Nearly Every Prominent Contractor and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS

AVAIL YOURSELF OF THIS PAPER WHEN BIDS ARE WANTED FOR CONSTRUCTION OR FOR FURNISHING SUPP